

UV DISINFECTION
SYSTEMS

Elektravägen 53
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Saniray Zeeron C-Series



Saniray's Zeeron C-series range from the Saniray UV family of products is designed for superior disinfection of industrial water in applications requiring performance at low UV transmittance or requiring high doses. The environmentally friendly, chemical-free technology is fully configurable to meet individual system needs whether the application is food & beverage, pharmaceutical manufacture, healthcare, electronics, beverage production or aquaculture disinfection.

Using energy efficient UV light sources and the latest variable power electronic ballasts, Saniray's Zeeron C-series range provides cost-effective and efficient water treatment with flexible options for easy integration. The medium pressure polychromatic lamps, combined with the variable power option allows the operator to minimize OPEX costs while still delivering the required treatment effectiveness.

The range of configurable options, from surface finishes to pipe connections allows the user to configure the product easily to their specific requirements. Where required, the highly efficient automatic wiper system can be added as an option, reducing maintenance downtime even further for applications of poor water quality.

Benefits

- Efficient and enhanced power control
- High performance lamps
- Simple, fast, and reliable maintenance
- Enhanced performance monitoring by sophisticated control system
- Built in safety features
- MODBUS or PROFIBUS connectivity
- Effective UV treatment resulting in cost-effective disinfection
- Designed for industrial applications



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Zeeron C-series UV System

Certification/Approvals: NSF61, SE Marked.

Common Option Features		
Features	Standard Chamber Specifications	Options
Lamp life	9,000 hours	
Technology	Medium pressure	
Lamp design	TwistLok™ Quick Release, Enhanced Safety, Medium Pressure Lamp	
Lamp and Wiper Access	Single Ended Access (Excl + C3/C4)	
Design Pressure	10 Barg Design (15 Barg Test)	
Variable Power	100% to 30% Power (Automatic Dose Pacing)	
Connection Type	EN 1092 PN10	DIN 32676 EN 1092 PN16, ASME Class 150, DIN 32676, ASME BPE, DIN 11851 (C3 Only)
Material Construction	316L Stainless Steel	
Internal Surface Finish	0.8 Ra [C1/C2, C3/C4 Only] 1.6 Ra [C5, C6, C7, C8 Only]	0.4 Ra [C1/C2 Only] 0.8 Ra [C5, C6, C7, C8 Only]
Internal / External Surface Treatment	Machine Polish	Electropolish [C1/C2, C3/C4 Only]
Quartz Type	High Purity Quartz Sleeves	TiO2 Doped Quartz
Installation / Mounting	Adjustable Inlet/Outlet Orientation	Z-type [C3/C4 Only]
Wiper System	Not Included as standard	Automatic Wiper System [Excl C3]
Vent Port	BSP	NPT, DIN 32676, ASME BPE, DIN 11851
Drain Port	BSP	NPT, DIN 32676, ASME BPE, DIN 11851
Seals	EPDM	



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Common Option Features (continued)		
Features	Standard Control Panel Specifications	Options
Material	Epoxy Coated Mild steel - RAL 7035	Stainless Steel (304)
Control Type	Microprocessor	
Power supply	Electronic Ballast	
Ingress Protection	IP54	
Ventilation	Forced Air cooled (Fan)	
Interface	Spectra Membrane	Spectra Touch
Communication	Modbus (RS-422 / RS-485)	Profibus DP
Protection	Door Locked Isolator	
Operating Temperature	Max Working Ambient +45°C	
Digital Inputs	3 selectable	Additional 3
Digital Outputs	3 selectable	Additional 3
Analogue Inputs	1 selectable	Additional 1
Analogue Outputs	1 selectable	Additional 1

System Information								
Zeeron UV Systems	C1	C2	C3	C4	C5	C6	C7	C8
Number of Lamps	1	1	1	1	2	4	6	8
Connection Size (mm/ inch)	DN 50/2" DN 75/3"	DN 50/2" DN 75/3" DN 100/4"	DN 50/2"	DN 50/2" DN 75/3"	DN 75/3" DN 100/4" DN 150/6" DN 200/8"	DN 75/3" DN 100/4" DN 150/6" DN 200/8"	DN 75/3" DN 100/4" DN 150/6" DN 200/8"	DN 100/4" DN 150/6" DN 200/8" DN 250/10"
Power Consumption (W)	2,750	2,750	8,800	8,800	13,200	24,400	39,600	52,800
200 - 240v 50/60hz	Standard	Standard	N/A	N/A	N/A	N/A	N/A	N/A
380v - 480v 50/60hz	Option	Option	Standard	Standard	Standard	Standard	Standard	Standard

Cable Length								
10m / 15ft	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
15m / 45ft	Option	Option	Option	Option	Option	Option	Option	Option
30m / 90ft	Option	Option	Option	Option	Requires local JB	Requires local JB	Requires local JB	Requires local JB



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Zeeron UV Systems	C1*	C2	C3	C4*	C5	C6	C7	C8
Chamber Dimensions								
A (mm / inches)	873 / 34.37	771 / 30.35	1259 / 49.57	1518 / 59.76	1161 / 45.71	1161 / 45.71	1161 / 45.71	1161 / 45.71
B (mm / inches)**	330 / 12.99	300 / 11.81	960 / 37.80	930 / 36.61	550 / 21.65	550 / 21.65	550 / 21.65	480 / 18.9
C (mm / inches)**	213 / 8.39	345 / 13.58	200 / 7.87	213 / 8.39	441 / 17.36	441 / 17.36	441 / 17.36	476 / 18.74
D (mm / inches)**	330 / 12.99	126 / 4.96	100 / 3.94	376 / 14.80	171 / 6.73	171 / 6.73	171 / 6.73	206 / 8.11
E (mm / inches)	17.13	419 / 16.5	1039 / 40.91	1035 / 40.75	743 / 29.25	743 / 29.25	743 / 29.25	733 / 28.86
F (mm / inches)	137 / 5.39	170 / 6.69	122 / 4.80	137 / 5.39	223 / 8.78	223 / 8.78	223 / 8.78	248 / 9.76
G (mm / inches)	97 / 3.82	124 / 4.88	75 / 2.95	97 / 3.82	177 / 6.97	177 / 6.97	177 / 6.97	202 / 7.95
H (mm / inches)	506 / 19.92	390 / 15.35	1150 / 45.28	1150 / 45.28	619 / 24.37	619 / 24.37	619 / 24.37	619 / 24.37
J (mm / inches)	388 / 15.58	250 / 9.84	250 / 9.84	987 / 38.86	250 / 9.84	250 / 9.84	250 / 9.84	250 / 9.84
K (mm / inches)	180 / 7.09	220 / 8.66	135 / 5.31	180 / 7.09	330 / 12.99	330 / 12.99	330 / 12.99	380 / 14.96
L (mm / inches)	120 / 4.72	140 / 5.51	80 / 3.15	120 / 4.72	220 / 8.66	220 / 8.66	220 / 8.66	250 / 9.84
M (mm / inches)	155 / 6.10	185 / 7.28	120 / 4.72	155 / 6.10	245 / 9.65	245 / 9.65	245 / 9.65	265 / 10.43
N (mm / inches)	175 / 6.89	225 / 8.86	150 / 5.91	175 / 6.89	275 / 10.83	275 / 10.83	275 / 10.83	325 / 12.80
Wet Weight (kg / lbs)	31 / 68.34	40 / 88.18	20 / 44.09	33 / 72.75	119 / 262.35	122 / 268.96	126 / 277.78	176 / 388.01
Dry Weight (kg / lbs)	37.5 / 82.67	51 / 112.44	22.5 / 49.60	43 / 94.80	177 / 390.22	180 / 396.83	177 / 390.22	256 / 564.38

**Zeeron UV System
(continued)**

Zeeron UV Systems	C1*	C2	C3	C4*	C5	C6	C7	C8
Panel Dimensions								
H mm	800 / 31.5	800 / 31.5	1600 / 63	1600 / 63	1600 / 63	1600 / 63	1600 / 63	1600 / 63
W mm	600 / 23.6	600 / 23.6	600 / 23.6	600 / 23.6	600 / 23.6	600 / 23.6	600 / 23.6	600 / 23.6
D mm	300 / 11.8	300 / 11.8	660 / 26	660 / 26	660 / 26	660 / 26	660 / 26	660 / 26
Weight (kg / lbs)	50 / 110	50 / 110	140 / 309	140 / 309	140 / 309	160 / 353	180 / 397	200 / 441

* Wiper motor fitted on opposite end - For full dimensions please see specific GA drawing

** Dimensions may vary depending on connection type/size

Dimensions

