

E Series Ultraviolet Sanitizer



SPECIFICATIONS

The Ultraviolet Sanitizer Unit shall be a Delta Ultraviolet Corporation E Series Model E-_____, rated at _____ Volts, 50/60 Hz. The unit shall be equipped with a 96 inch (243.8 cm) long power cord. The wet chamber shall be a 8 inch (20.3 cm) UV inhibited PVC housing with four mounting feet and PVC electrical enclosure bonnet suitable for outdoor installation. PVC Inlet/Outlet unions shall be _____ (inch/cm) socket size. The UV unit shall include a pressure switch to prevent operation when water is not flowing, a pressure gauge and a clear viewing tail piece to verify bulb ON condition. The UV lamp shall be rated at 9,000 hours of continuous use and shall be fully replaceable without requiring special tools. The UV lamp shall be design rated at no less than 30,000 $\mu\text{W}/\text{sec}/\text{cm}^2$ (Class A drinking water requirement) and shall bear the manufacturer's EPA Registration number on the unit, cartons and printed literature. The UV unit shall be warranted for two [2] years (Lamp – one [1] year) and shall be accompanied by a printed factory limited warranty, installation instructions and owner's manual.



Model	Part Number	Voltage	I/O Size
E-5	35-08540	120V/50/60Hz	2 inch
E-5	35-08550	120V/50/60Hz	63mm
E-5	35-08570	240V/50/60Hz	2 inch
E-5	35-08571	240V/50/60Hz	63mm
E-10	35-08542	120V/50/60Hz	2 inch
E-10	35-08552	120V/50/60Hz	63mm
E-10	35-08572	240V/50/60Hz	2 inch
E-10	35-08573	240V/50/60Hz	63mm

Model	Part Number	Voltage	I/O Size
E-20	35-08544	120V/50/60Hz	2 inch
E-20	35-08554	120V/50/60Hz	63mm
E-20	35-08574	240V/50/60Hz	2 inch
E-20	35-08575	240V/50/60Hz	63mm
E-40	35-08546	120V/50/60Hz	2 inch
E-40	35-08556	120V/50/60Hz	63mm
E-40	35-08576	240V/50/60Hz	2 inch
E-40	35-083577	240V/50/60Hz	63mm

Model	Cord Length	Bulb Output (EOL)	Bulb Watts
E-5	60" (152.4 cm)	30,000 $\mu\text{W}/\text{sec}/\text{cm}^2$	30
E-10	60" (152.4 cm)	30,000 $\mu\text{W}/\text{sec}/\text{cm}^2$	58

Model	Cord Length	Bulb Output (EOL)	Bulb Watts
E-20	60" (152.4 cm)	30,000 $\mu\text{W}/\text{sec}/\text{cm}^2$	80
E-40	60" (152.4 cm)	30,000 $\mu\text{W}/\text{sec}/\text{cm}^2$	90

POOL FLOW CHART

Delta UV EA Model	Maximum Flow Rate (GPM)	Maximum Flow Rate (LPM)	Minimum UV Microwatts sec/cm^2	Max Pool Volume 12 Hr. Turnover (Gallons)	Max Pool Volume 12 Hr. Turnover (Liters)	Max Pool Volume 8 Hr. Turnover (Gallons)	Max Pool Volume 8 Hr. Turnover (Liters)
E-5	31	140	30390	26640	100843	17760	67229
E-10	57	295	30390	56160	212588	37440	141725
E-20	79	416	30180	79200	299804	52800	199869
E-40	110	469	30310	89280	337961	59520	225307

POND FLOW CHART

Delta UV EA Model	Maximum Flow Rate (GPM)	Maximum Flow Rate (LPM)	Minimum UV Microwatts sec/cm^2	Max Volume 2 Hr. Turnover (Gallons)	Max Volume 2 Hr. Turnover (Liters)	Max Volume 3 Hr. Turnover (Gallons)	Max Volume 3 Hr. Turnover (Liters)	Max Volume 4 Hr. Turnover (Gallons)	Max Volume 4 Hr. Turnover (Liters)
E-5	31	140	30390	4440	16807	6660	25211	8880	33614
E-10	57	295	30390	9360	35431	14040	53147	18720	70863
E-20	79	416	30180	13200	49967	19800	74951	26400	99935
E-40	110	469	30310	14880	56327	22320	84490	29760	112654

Physical Dimensions



Model	Dim. A	Dim. B	Dim. C	Dim. D	Empty Wt.	Operating Wt.	Shipping Wt.	Carton Size
E-5	9.25 in. 234.9 mm	17.75 in. 450.8 mm	8 in. 203.2 mm	7 in. 177.8 mm	16 lbs 7 kg	40 lbs 18 kg	21 lbs 10 kg	19-3/4"x13-1/2"x14-1/2" 501.65 x 342.9 x 368.3
E-10	16.25 in. 412.7 mm	24.75 in. 628.6 mm	8 in. 203.2 mm	18 in. 457.2 mm	20 lbs 9 kg	56 lbs 25 kg	26 lbs 12 kg	26-3/4"x13-1/2"x14-1/2" 679.4 x 342.9 x 368.3
E-20	30.375 in. 771.5 mm	38.875 in. 987.4 mm	8 in. 203.2 mm	32 in. 812.8 mm	27 lbs 12 kg	88 lbs 40 kg	35 lbs 17 kg	40-3/8"x13-1/2"x14-1/2" 1025.7 x 342.9 x 368.3
E-40	37.5 in. 952.52 mm	46 in. 1168.4 mm	8 in. 203.2 mm	39 in. 990.6 mm	30 lbs 14 kg	105 lbs 48 kg	38 lbs 17 kg	48"x13-1/2"x14-1/2" 1219.2 x 342.9 x 368.3

All weights and dimensions nominal.

PART NUMBER MATRIX						
MODEL	ITEM #4	ITEM #19	ITEM #24	ITEM #25	ITEM #29	ITEM #30
E OR ES-5	70-10121	35-04405	58-50305	70-18405	82-04705	82-04706
E OR ES-10	70-10121	35-04410	58-50310	70-18410	82-04710	82-04711
E OR ES-20	70-10122	35-04420	58-50320	70-18420	82-04720	82-04721
E OR ES-40	70-10122	35-04440	58-50340	70-18440	82-04740	82-04741

ITEM	DESCRIPTION	QTY	PART#
00	OUTER WRAPPER (ES SERIES ONLY)	1	SEE MATRIX
01	INNER WRAPPER (ES SERIES ONLY)	1	SEE MATRIX
02	CORD CONNECTED GFCI (OPTIONAL)	1	70-09012
03	CORD 18/3X96"-NEMA	1	84-02002
04	ORING 006-VITON	2	44-02221
05	HD UV BULB	1	SEE MATRIX
06	QUARTZ TUBE	1	SEE MATRIX
07	BULB CUSHION	1	44-02018
08	ORING 125-EPDM	1	44-02212
09	UNION TAIL PIECE-2"-WHITE	1	86-02352
10	PVC NIPPLE-2" NPT-SCH 80-GRAY	1	86-08626
11	UV-HOUSING 2" IN/DUT	1	SEE MATRIX
12	TANK ID LABEL-SELF ADHESIVE	1	86-02225
13	PRESSURE GAUGE	1	84-82234
14	UNION TAIL PIECE-2" CLEAR-TAPPED	1	86-02402
15	FLAT ORING-2" WHITE	2	44-02335
16	UNI-NUT*- 2" BLACK	2	86-02335
17	UNION 2" SKT-WHITE	1	86-11515
18	BONNET BRACKET	4	82-02046
19	PRESSURE SWITCH	1	70-02305
20	NUT LOCK-1" NPT-BLACK	1	40-50051
21	QUARTZ TUBE COMPRESSION GASKET	1	44-02018
22	QUARTZ TUBE ADORN NUT&HOLDER	1	86-02411
23	SCREW #10X5/8"-HI-LO-PP-S/S	6	40-08027
24	FLAT WASHER #10-S/S	2	40-08010
25	BALLAST BRACKET	2	82-02060
26	BALLAST ASSEMBLY	1	SEE MATRIX
27	SCREW #1-3/2X3/8"-PPMS-S/S	4	40-08005
28	ELECTRICAL ENCLOSURE BONNET	1	86-02054
29	DECO DISC	1	90-10201

NOTE: ITEMS #29 & #30 ARE NOT SHOWN FOR ES SERIES