

# UV Systems



## SMART UV™

### The Choice of Professionals

#### Pond, Aquarium, Exhibit, Research, & Aquaculture

More animal husbandry and aquatic professionals choose SMART UVs over competing UV brands because of our *substantiated performance information, effective product design, and overall quality*. Emperor Aquatics, Inc. has over *thirty models* to choose from. We have the right SMART UV to fit your application.

#### System Features:

- **Easy-to-remove UV lamp and quartz sleeve assembly** allows for lamp removal without disrupting the water flow. This design also allows for removal of the entire power assembly for easy interior cleaning.
- **Remote Power Supply** positions the power supply away from the UV vessel and water, *increasing overall safety*.
- **SMART Ballasts** are available with standard-output sterilizers (18-watt through 130-watt models). **SMART LPHO Multi-Voltage (100-277 VAC) Ballasts** are available with high-output sterilizers (50-watt through 120-watt models). They both deliver the precise electrical requirements to the lamp, maximizing UV-C output and lamp life. All SMART Ballasts are sealed to prevent water damage. Cord length: 19.5 ft.
- **All SMART UVs** are watertight and designed for operation in wet environments.
- **SMART UVs** feature a heavy-wall UV-resistant plastic vessel (UV Vessel Lifetime Limited Warranty\*).
- **Clear viewing ports** are positioned on both ends of each SMART UV vessel for safe internal inspection during use.
- All SMART UV styles are available with quartz sleeve wiper modules for removing soft waste deposits without interrupting UV operation.

**Note:** *Wipers are NOT recommended for saltwater applications.*

*\*Warranted against manufacturer defects and UV degradation of the plastic filter vessel. See complete warranty for details.*

## SMARTUV<sup>Lite</sup>



Model	Lamps / Watts	Input Watts	UV-C Output Watts	UV Vessel Dimensions	Inlet / Outlet Port(s)	Amps Max Load @ 120/230 VAC	30 mJ/cm <sup>2</sup> GPM / LPM	180 mJ/cm <sup>2</sup> GPM / LPM
02218	1/18	18	6.6	22" x 3"	1.5" Union	120VAC 50/60Hz	4 / 15	0.6 / 2
02225	1/25	25	8.8	30" x 3"	1.5" Union	120VAC 50/60Hz	6 / 23	0.9 / 3
02240	1/40	40	17.3	45" x 3"	1.5" Union	120VAC 50/60Hz	10 / 39	1.6 / 6
02280	2/40	80	17.3 (2)	45" x 14"	1.5" Union	120VAC 50/60Hz	20 / 76	3 / 11

## SMARTUV<sup>Sterilizer</sup>



Model	Lamps / Watts	Input Watts	UV-C Output Watts	UV Vessel Dimensions	Inlet / Outlet Port(s)	Amps Max Load @ 120/230 VAC	30 mJ/cm <sup>2</sup> GPM / LPM	180 mJ/cm <sup>2</sup> GPM / LPM
02025	1/25	25	8.8	29" x 4"	1.5" Union	120VAC 50/60Hz	8 / 30	1 / 4
02040	1/40	40	17.3	44" x 4"	1.5" Union	120VAC 50/60Hz	17 / 65	2.8 / 11
02065	1/65	65	32	71" x 4"	1.5" Union	120VAC 50/60Hz	32 / 121	5.3 / 20
02080	2/40	80	17.3 (2)	45" x 16"	1.5" Union	120VAC 50/60Hz	34 / 130	5.6 / 21.7
02130	2/65	130	32 (2)	72" x 16"	1.5" Union	120VAC 50/60Hz	64 / 242	10.6 / 40

## High Output SMART HO UV<sup>Sterilizer</sup>



Model	Lamps / Watts	Input Watts	UV-C Output Watts	UV Vessel Dimensions	Inlet / Outlet Port(s)	Amps Max Load @ 120/230 VAC	30 mJ/cm <sup>2</sup> GPM / LPM	180 mJ/cm <sup>2</sup> GPM / LPM
025050	1/50	50	15	30" x 6"	2" Union	1.15/0.57	25 / 97	4 / 16
025080	1/80	80	27	45" x 6"	2" Union	1.15/0.57	45 / 170	7 / 26
025120	1/120	120	37	57" x 6"	2" Union	1.15/0.57	64 / 242	10 / 38
025150	1/150	150	57	71" x 6"	2" Union	1.85/0.85	100 / 387	17 / 65

## High Output Multi-Lamp SMART HO ML UV<sup>Sterilizer</sup>



Model	Lamps / Watts	Input Watts	UV-C Output Watts	UV Vessel Dimensions	Inlet / Outlet Port(s)	Amps Max Load @ 120/230 VAC	Max. PSI / Bar	30 mJ/cm <sup>2</sup> GPM / LPM	180 mJ/cm <sup>2</sup> GPM / LPM
0250100	2/50	100	30	35" x 6"	3" Union	1.15/0.57	150 / 10.3	43 / 166	7 / 28
0250160	2/80	160	54	50" x 6"	3" Union	1.15/0.57	150 / 10.3	81 / 314	14 / 52
0250240	2/120	240	74	62" x 6"	3" Union	1.15/0.57	150 / 10.3	110 / 426	18 / 71
0250300	2/150	300	114	76" x 6"	3" Union	1.85/0.85	150 / 10.3	174 / 675	29 / 113

Note: Fluence (UV Dose) calculated using UVT factors of 90-95%T and UV lamps at end of useful lamp life