

# SMARTUV Performance

Pond, Aquarium, Exhibit, Research & Aquaculture

## SMARTUV...The Professional's Choice!

More animal husbandry and aquatic professionals choose SMART UV's over competing UV brands because of our substantiated performance information, effective product design and overall quality. With over thirty models to choose from, EA, Inc. has the right SMART UV to fit your application.



Models shown with optional mounting clamps



SMARTUV Sterilizer



High Output  
SMART HO UV Sterilizer



High Output Multi-Lamp  
SMART HO ML UV Sterilizer

## Optimum UV-C Performance

**Size** – Our SMART UV design always considers the lamp's UV-C output and length, while most competitors ignore these critical performance factors. This explains why, in most cases, our equipment is physically larger.

**Lamp Position** – Our lamps are always positioned entirely between the inlet and outlet. This utilizes the lamp's arc length to its maximum potential.

**Lamp Life** – Our T5 & T6 "Hard Quartz Glass" lamps are coated (L-Glass) and non-ozone emitting, eliminating nitrogen byproducts from accumulating on the lamp and on the inside surface of the quartz sleeve...potentially affecting UV transmissibility. (All lamps offer 13 months of continuous operation until reaching 80% efficient; "end of useful lamp life")

**Water-flow Rates** – SMART UV flow rates represent the equipment's true capacity, which considers the lamp's UV-C output, lamp length, exposure chamber diameter and UV transmissibility.

## Advantages:

- ▶ **UV Power Assembly** – Each SMART UV features an easy-to-remove UV lamp/Quartz Sleeve Power Assembly which allows the lamp to be removed without disrupting the water flow. This design also permits the entire Power Assembly to be removed for easy cleaning of the glass and exposure chamber interior.
- ▶ **Remote Power Supply** – Positions the Power Supply away from the UV exposure chamber, increasing overall safety.
- ▶ **SMART Ballast** available w/ SMART UV Sterilizers 18 watt through 65 watt models deliver precise input wattage to the lamp, maximizing UV-C output and lamp life. SMART Ballasts are potted/sealed, feature a 26 foot power cord and resist failure due to water damage.
- ▶ **Watertight** – All SMART UV's are watertight and submersible (excluding power supply and provided that all seals are in place).
- ▶ **Heavy-wall UV Resistant Construction** – SMART UV's feature a heavy-wall "UV resistant" plastic housing offering increased equipment operating life (UV Housing Lifetime Warranty\*).
- ▶ **Clear Viewing Ports** – Clear viewing ports are positioned on both ends of each SMART UV enabling safe internal inspection during use.
- ▶ **Optional Quartz Sleeve Wipers** – All SMART UV styles are available with quartz sleeve cleaning wiper models that allow removal of soft waste deposits without interrupting UV operation.

## SMARTUV<sup>Lite</sup>

### 2" Diameter UV Housing, Watertight & UL Listed

Models for Small Ponds, Aquariums, and Research Applications



Model No. /Watts	Maximum Pond Size	Maximum Aquarium Size	No. Lamps /Watt	Water Flow Rate		Input Watts	UV-C		Dim. (Inches)	Inlet /Outlet	Input Voltage
				Algae & Bacteria 30,000 µWs/cm <sup>2</sup> Suggested/Maximum	Protozoa 90,000 µWs/cm <sup>2</sup> Suggested/Maximum		Output Watts	Output Watts			
02218/18	1,100 Gal.	70 Gal.	1/18	219 GPH/356 GPH	73 GPH/121 GPH	18	5	21.75" x 2.5"	1.5" Union	120VAC 50/60Hz	
02225/25	1,600 Gal.	100 Gal.	1/25	332 GPH/554 GPH	110 GPH/184 GPH	25	8	29.75" x 2.5"	1.5" Union	120VAC 50/60Hz	
02240/40	2,900 Gal.	200 Gal.	1/40	589 GPH/983 GPH	196 GPH/327 GPH	40	14	44.75" x 2.5"	1.5" Union	120VAC 50/60Hz	
02280/80	5,900 Gal.	400 Gal.	2/40	1,178 GPH/1,967 GPH	392 GPH/655 GPH	80	28	44.75" x 14"	1.5" Union	120VAC 50/60Hz	

• Indicates popular models

▶ Adapter Fittings are not Included

## SMARTUV<sup>Sterilizer</sup>

### 3" Diameter UV Housing, Watertight & UL Listed

Models for Moderately Sized Ponds, Aquariums, and Exhibit/Research Applications



Model No. /Watts	Maximum Pond Size	Maximum Aquarium Size	No. Lamps /Watt	Water Flow Rate		Input Watts	UV-C		Dim. (Inches)	Inlet /Outlet	Input Voltage
				Algae & Bacteria 30,000 µWs/cm <sup>2</sup> Suggested/Maximum	Protozoa 90,000 µWs/cm <sup>2</sup> Suggested/Maximum		Output Watts	Output Watts			
02025/25	2,360 Gal.	150 Gal.	1/25	472 GPH/788 GPH	157 GPH/262 GPH	25	8	29" x 3.5"	1.5" Union	120VAC 50/60Hz	
02040/40	4,725 Gal.	300 Gal.	1/40	943 GPH/1,574 GPH	314 GPH/525 GPH	40	14	43.75" x 3.5"	1.5" Union	120VAC 50/60Hz	
02065/65	8,565 Gal.	500 Gal.	1/65	1,710 GPH/2,855 GPH	570 GPH/952 GPH	65	25	70.5" x 3.5"	1.5" Union	120VAC 50/60Hz	
02080/80	9,445 Gal.	600 Gal.	2/40	1,885 GPH/3,148 GPH	628 GPH/1,049 GPH	80	28	44.5" x 15.5"	1.5" Union	120VAC 50/60Hz	
02130/130	17,130 Gal.	1,140 Gal.	2/65	3,420 GPH/5,711 GPH	1,140 GPH/1,903 GPH	130	50	71.5" x 15.5"	1.5" Union	120VAC 50/60Hz	

• Indicates popular models

▶ All models include adapter fittings

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

### 5" Diameter UV Housing, Watertight & UL Listed

Models for Large Ornamental Ponds, Water Features, and Exhibit/Research/Aquaculture Applications



Model No. /Watts	Maximum Pond Size	Maximum Aquarium Size	No. Lamps /Watt	Water Flow Rate		Input Watts	UV-C		Dim. (Inches)	Inlet /Outlet	Input Voltage
				Algae & Bacteria 30,000 µWs/cm <sup>2</sup> Suggested/Maximum	Protozoa 90,000 µWs/cm <sup>2</sup> Suggested/Maximum		Output Watts	Output Watts			
025050/50	5,900 Gal.	500 Gal.	1/50	1,560 GPH/1,980 GPH	540 GPH/720 GPH	50	16	28" x 5.75"	2" Union	120VAC 50/60Hz	
025080/80	10,800 Gal.	900 Gal.	1/80	2,700 GPH/3,600 GPH	900 GPH/1,200 GPH	80	26	43" x 5.75"	2" Union	120VAC 50/60Hz	
025120/120	13,800 Gal.	1,200 Gal.	1/120	3,840 GPH/4,600 GPH	1,260 GPH/1,560 GPH	120	36	56" x 5.75"	2" Union	120VAC 50/60Hz	
025150/150	19,000 Gal.	1,600 Gal.	1/150	5,040 GPH/6,360 GPH	1,680 GPH/2,100 GPH	150	47	70" x 5.75"	2" Union	120VAC 50/60Hz	

• Indicates popular models

▶ Adapter fittings are not included

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

### 6" Diameter UV Housing, Watertight & UL Listed

Models for Large Ornamental Ponds, Water Features, and Exhibit/Research/Aquaculture Applications



Model No. /Watts	Maximum Pond Size	Maximum Aquarium Size	No. Lamps /Watt	Water Flow Rate		Input Watts	UV-C		Dim. (Inches)	Inlet /Outlet	Input Voltage
				Algae & Bacteria 30,000 µWs/cm <sup>2</sup> Suggested/Maximum	Protozoa 90,000 µWs/cm <sup>2</sup> Suggested/Maximum		Output Watts	Output Watts			
0250100/100	6,120 Gal.	660 Gal.	2/50	2,040 GPH/2,580 GPH	660 GPH/840 GPH	100	26	37" x 11"	3" Union	120VAC/60Hz	
0250160/160	12,960 Gal.	1,440 Gal.	2/80	4,320 GPH/5,400 GPH	1,440 GPH/1,800 GPH	160	52	54" x 11"	3" Union	120VAC/60Hz	
0250240/240	17,460 Gal.	1,920 Gal.	2/120	5,820 GPH/7,260 GPH	1,920 GPH/2,400 GPH	240	70	66" x 11"	3" Union	120VAC/60Hz	
0250300/300	28,800 Gal.	3,180 Gal.	2/150	9,600 GPH/12,000 GPH	3,180 GPH/3,960 GPH	300	110	80" x 11"	3" Union	120VAC/60Hz	

▶ All models include adapter fittings

Water Flow Rates are based on: 90% UV Transmissibility  
Suggested = UV Lamp @ 80% efficient (after 9,000 hours of continuous operation)  
Maximum = UV Lamp Power @ 100% efficient (new condition)

Aquarium & Pond Sizing is based on:  
Maximum Aquarium = single pass/1 hour @ "Suggested" flow rate for Protozoa  
Maximum Pond = single pass/3 hours @ "Suggested" flow rate for Algae & Bacteria