



**AQUATIC ECO-SYSTEMS®**

## SAFEGUARD UV SYSTEMS™ SUP SERIES

### Commercial U-Shaped Polymer

SUP Series SafeGUARD UV Systems feature a compact “U” vessel port orientation for a reduced footprint. The robust Schedule-80 Modified PVC plastic construction is ideal for corrosive saltwater environments. SUP vessels are tested for an operating pressures up to 50 PSI, outperforming comparable polypropylene and HDPE models. The efficient operational design ensures proper hydraulic mixing takes place inside the UV vessel. This optimizes UV light intensity distribution throughout the lamp field for reliable fluence (UV does) delivery. All at a cost savings of up to 50% when compared to 316 stainless steel models.

SUP Series SafeGUARD UV Systems feature single-end glassware assembly that allows for easy access to high-quality Amalgam UV lamps. The remote thermoplastic power supply enclosures are weather-tight, 508 UL listed, NEMA 12 or NEMA 4X to protect from water damage. A Basic Control package is standard, PLC packages are optional. Available in sizes to treat up to 1,839 GPM/6,961 LPM.

### SYSTEM FEATURES:

- Basic Control Package included (optional PLC package shown).
- Control Package available with NEMA12 or NEMA4X enclosure.
- Enhanced, state-of-the-art electronic ballast ensures optimal UV-C output and maximum useful-lamp-life.
- Compact footprint: reduces required operating space.
- Schedule-80 Modified PVC plastic construction is for pressures higher than comparable polypropylene and HDPE models.
- Single-End UV lamp and quartz sleeve access for easy servicing.
- Watertight design protects all electrical hardware from water damage.
- Highest-Quality American-Made Low-Pressure Amalgam UV lamps offer 12,000 hours of continuous operation (80% efficient after 12,000 hours).
- Saltwater compatible.
- Power Supply is 50/60 Hz capable.
- 20-foot lamp cables.



## SAFEGUARD UV SYSTEMS™ LOW-PRESSURE AMALGAM SUP SERIES

Model	Lamps/Watts	Input Watts	UV-C Output Watts	UV Vessel Dimensions* (A x B x C)	Power Enclosure Dimensions (H x W x D)	Inlet/Outlet Port(s) (Flange)	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
<b>AVAILABLE IN 120 VAC OR 240 VAC</b>										
SUP4010604B11	1/130	130	40	52" x 6" x 47"	16" x 14" x 8.4"	4"	2.1/1.0	50/3.4	66/249	11/42
SUP4020604B11	2/130	260	80	52" x 6" x 47"	16" x 14" x 8.4"	4"	3.9/2.0	50/3.4	112/424	18/68
SUP4030604B11	3/130	390	120	52" x 6" x 47"	16" x 14" x 8.4"	4"	5.8/289	50/3.4	161/609	27/102
SUP4030806B11	3/130	390	120	54" x 8" x 47"	16" x 14" x 8.4"	6"	5.8/289	50/3.4	228/863	38/144
SUP4040806B11	4/130	520	160	54" x 8" x 47"	20.2" x 16.3" x 8.4"	6"	7.5/3.7	50/3.4	296/1120	49/185
SUP4050806B11	5/130	650	200	54" x 8" x 47"	24.6" x 20.2" x 10.6"	6"	9.4/4.7	50/3.4	346/1309	58/219
SUP4061008B11	6/130	780	240	60" x 10" x 51"	24.6" x 20.2" x 10.6"	8"	11.2/5.6	50/3.4	480/1816	80/302
SUP4071008B11	7/130	910	280	60" x 10" x 51"	24.6" x 20.2" x 10.6"	8"	13.3/6.5	50/3.4	564/2134	94/355
SUP4071208B11	7/130	910	280	62" x 12" x 51"	24.6" x 20.2" x 10.6"	8"	13.3/6.5	50/3.4	648/2452	108/408
SUP4081208B11	8/130	1,040	320	62" x 12" x 51"	30.5" x 24.1" x 12.6"	8"	15.0/7.5	50/3.4	763/2888	127/480

<b>ONLY AVAILABLE IN 240 VAC</b>										
SUP6010604B11	1/320	320	98	75" x 6" x 71"	24.6" x 20.2" x 10.6"	4"	—	50/3.4	165/624	27/102
SUP6020604B11	2/320	640	196	75" x 6" x 71"	24.6" x 20.2" x 10.6"	4"	—	50/3.4	276/1044	46/174
SUP6030604B11	3/320	960	294	75" x 6" x 71"	24.6" x 20.2" x 10.6"	4"	—	50/3.4	392/1483	65/246
SUP6030806B11	3/320	960	294	77" x 8" x 71"	24.6" x 20.2" x 10.6"	6"	—	50/3.4	587/2222	98/370
SUP6040806B11	4/320	1,280	392	77" x 8" x 71"	24.6" x 20.2" x 10.6"	6"	—	50/3.4	744/2816	124/469
SUP6050806B11	5/320	1,600	490	77" x 8" x 71"	24.6" x 20.2" x 10.6"	6"	—	50/3.4	848/3210	141/533
SUP6061008B11	6/320	1,920	588	79" x 10" x 71"	30.5" x 24.1" x 12.6"	8"	—	50/3.4	1,198/4534	200/757
SUP6071008B11	7/320	2,240	686	79" x 10" x 71"	30.5" x 24.1" x 12.6"	8"	—	50/3.4	1,405/5318	234/885
SUP6071208B11	7/320	2,240	686	81" x 12" x 71"	30.5" x 24.1" x 12.6"	8"	—	50/3.4	1,611/6098	268/1014
SUP6081208B11	8/320	2,560	784	81" x 12" x 71"	30.5" x 24.1" x 12.6"	8"	—	50/3.4	1,839/6961	306/1158

\*UV Vessel Dimensions: A = Length of UV Vessel, B = Diameter of UV Vessel, C = Clearance needed for Quartz Sleeve Removal

\*\*Calculated using UVT factors of 90% transmittance and UV lamps at the end of their useful lamp life.

Note: All models are weather-tight and 508A UL Listed.

## CONTROL PACKAGE OPTIONS

STANDARD		OPTIONAL			
Basic		PLC		Adv PLC	
Display	Lamp Runtime LED Lamp Status LED Alarm	Display	Touch Screen Lamp Status Alarm Individual Lamp Runtime	Display	Touch Screen Lamp Status Alarm Individual Lamp Runtime
Inputs	Water Temperature	Inputs	Max 8 Lamps UV Intensity Water Temperature Remote On/Off Enclosure Temperature	Inputs	Max 13 Lamps UV Intensity Water Temperature Remote On/Off Enclosure Temperature Flow Sensor Pulse Dimmable Ballasts***
		Outputs	Alarm Discrete	Outputs	UV Intensity 4-20 mA 7 Individual Alarms
				Communication	Ethernet Port (ModBus)

\*\*\*For models with part numbers that start with "SUP6" only.

Note: Available with NEMA12 or NEMA4X enclosure.



## AQUATIC ECO-SYSTEMS®

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SafeGUARD UV Systems reduce microorganisms through ultraviolet light.

EPA Est. No.: 091668-FL-001

