



AQUATIC ECO-SYSTEMS®

SAFEGUARD UV SYSTEMS™ SVP SERIES

Commercial Vertical Polymer

When operating space is restricted, SVP Series SafeGUARD UV Systems provide the small footprint you need. A robust Schedule-80 Modified PVC plastic construction is ideal for corrosive saltwater environments. SVP vessels are NSF-50 Certified for 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.

SVP 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 763 GPM/2,888 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 NSF-50 Certified 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 reduce microorganisms through ultraviolet light.
EPA Est. No.: 091668-FL-001

SAFEGUARD UV SYSTEMS™ LOW-PRESSURE AMALGAM SVP 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 ² ** GPM/LPM	180 mJ/cm ² ** GPM/LPM
AVAILABLE IN 120 VAC OR 240 VAC										
SVP4010604 XYZ	1/130	130	40	58" x 6" x 47"	16" X 14" X 8.4"	4"	2.1/1.0	50/3.4	66/249	11/42
SVP4020604 XYZ	2/130	260	80	58" x 6" x 47"	16" X 14" X 8.4"	4"	3.9/2.0	50/3.4	112/424	18/68
SVP4030604 XYZ	3/130	390	120	58" x 6" x 47"	16" X 14" X 8.4"	4"	5.8/2.9	50/3.4	161/609	27/102
SVP4030806 XYZ	3/130	390	120	62" x 8" x 47"	16" x 14" x 8.4"	6"	5.8/2.9	50/3.4	228/863	38/144
SVP4040806 XYZ	4/130	520	160	62" x 8" x 47"	20.2" x 16.3" x 8.4"	6"	7.5/3.7	50/3.4	296/1120	49/185
SVP4050806 XYZ	5/130	650	200	62" x 8" x 47"	24.6" x 20.2" x 10.6"	6"	9.4/4.7	50/3.4	346/1309	58/219
SVP4061008 XYZ	6/130	780	240	71" x 10" x 51"	24.6" x 20.2" x 10.6"	8"	11.2/5.6	50/3.4	480/1816	80/302
SVP4071008 XYZ	7/130	910	280	71" x 10" x 51"	24.6" x 20.2" x 10.6"	8"	13.3/6.5	50/3.4	564/2134	94/355
SVP4071208 XYZ	7/130	910	280	71" x 12" x 51"	24.6" x 20.2" x 10.6"	8"	13.3/6.5	50/3.4	648/2452	108/408
SVP4081208 XYZ	8/130	1,040	320	71" x 12" x 51"	30.5" x 24.1" x 12.6"	8"	15.0/7.5	50/3.4	763/2888	127/480

*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.

X: Select B (Basic), P (PLC) or A (Advanced PLC)

Y: Select 1 (120 VAC) or 2 (240 VAC)

Z: Select 1 (NEMA 12) or 2 (NEMA 4X)

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

CONTROL PACKAGE OPTIONS

Basic [B]		PLC [P]		Adv PLC [A]	
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 Remote On/Off	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
Outputs	Alarm Discrete	Outputs	Alarm Discrete	Outputs	UV Intensity 4-20 mA 7 Individual Alarms
				Communication	Ethernet Port (ModBus)



AQUATIC ECO-SYSTEMS®

2395 APOPKA BLVD., APOPKA, FL 32703 407.886.3939 PentairAES.com



All Pentair trademarks and logos are owned by Pentair or one of its global affiliates. Pentair Aquatic Eco-Systems® and SafeGUARD UV Systems™ are registered trademarks and/or trademarks of Pentair Aquatic Eco-System, Inc. and/or its affiliated companies in the United States and/ or other countries. Unless expressly noted, names and brands of third parties that may be used in this document are not used to indicate an affiliation or endorsement between the owners of these names and brands and Pentair Aquatic Eco-Systems, Inc. Those names and brands may be the trademarks or registered trademarks of those third parties. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.