



SOLAR PUR

ULTRAVIOLET DISINFECTION



APPLIED
MEMBRANES INC.®

Industry Leader in RO Expertise and Membrane Applications Since 1983™





Solapur Ultraviolet Water Treatment Systems

Reliable, Safe, and Economical Drinking Water Disinfection without Chemicals.

Ultraviolet water disinfection technology is a chemical-free, efficient, and highly effective method of destroying waterborne microbiological contamination, making water safe for drinking and food preparation.

Applied Membranes Solapur ultraviolet disinfection systems use the most advanced ultraviolet disinfection technology available in the industry. Our Solapur UV product line is available in sizes ranging from 2 gpm to over 1,000 gpm and are suitable for a wide variety of residential, commercial, and industrial-sized applications.

SOLAPUR ULTRAVIOLET DISINFECTION ADVANTAGES

- ◆ 99.99% destruction of bacteria, virus and protozoan cysts (Giardia Lamblia and Cryptosporidium) at rated flow.
- ◆ No chemical additives - no added taste or odors.
- ◆ Environmentally friendly, cost effective & energy efficient.
- ◆ No disinfection by-products (DBP's) or residuals.
- ◆ No resistance as with chlorine and antibiotics.
- ◆ No regrowth of viruses, bacteria and parasites.
- ◆ Easy to install and service - simply change the bulb once per year.
- ◆ No moving parts to wear out or break.
- ◆ Compact, streamline design takes minimal space.



APPLICATIONS FOR SOLAPUR ULTRAVIOLET DISINFECTION

Applied Membranes Solapur UV Disinfection systems are offered in sizes ranging from 2 gpm to over 1,000 gpm. Because it is chemical and additive-free, UV can be used in virtually any application where microbiologically safe water is required – from home point of use and point of entry solutions, to commercial and industrial applications, including the below:

- | | | |
|-------------------------------------|---------------------|-------------------------------------|
| ◆ Homes, Condos, Cottages | ◆ RVs | ◆ Food & Beverage |
| ◆ Offices | ◆ Boats | ◆ Small Municipality |
| ◆ Public Buildings | ◆ Rainwater | ◆ Marine |
| ◆ Restaurants | ◆ Dairy & Livestock | ◆ Pharmaceuticals |
| ◆ Schools & Daycares | ◆ Manufacturing | ◆ Cooling Towers |
| ◆ Eldercare & Healthcare Facilities | ◆ Aquaculture | ◆ Pools |
| ◆ Dental Practices | ◆ Microelectronics | ◆ Recreational Waters (Splash Pads) |
| ◆ Campgrounds & Cabins | | |

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Helios Series - 2 to 21 gpm Basic UV Systems

- Built-In UV Lamp Countdown Timer and Total Elapsed Running Time Readouts with a 4-Digit LED Display
- Visual Sight Port for "Lamp-On" Verification
- Audible and Visual Lamp Change Reminders
- Audible and Visual Lamp Failure Indicators
- Axial Flow 304 Stainless Steel Reactor Chamber
- Reliable, Industry Proven, Coated UV Lamps with Ceramic Bases for Durability and Long Life (9,000 Hours)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues



Model No.	Service Flow		Inlet/Outlet
	gpm	lpm	
UV-SPH-2	2.0	7.6	½" FNPT
UV-SPH-3	3.1	11	½" MNPT
UV-SPH-6	5.8	23	¾" MNPT
UV-SPH-11	11.0	41	¾" MNPT
UV-SPH-15	15.0	57	1" MNPT
UV-SPH-21	21.0	79	1" MNPT



UV-SPH-2



UV-SPH-3



UV-SPH-11



UV-SPH-15

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Helios Series UV Systems Specifications

UV System Model →	UV-SPH-2	UV-SPH-3	UV-SPH-6	UV-SPH-11	UV-SPH-15	UV-SPH-21
Flow Rate	2 gpm	3 gpm	6 gpm	11 gpm	15 gpm	21 gpm
Recommended (30mJ/cm ² @95% UVT)	7.6 lpm 0.45 m ³ /hr	11.4 lpm 0.7 m ³ /hr	22.7 lpm 1.4 m ³ /hr	41 lpm 2.5 m ³ /hr	57 lpm 3.4 m ³ /hr	79 lpm 4.8 m ³ /hr
Flow Rate	4 gpm	6 gpm	11 gpm	20 gpm	30 gpm	39 gpm
US Public Health Std. (16mJ/cm ² @95% UVT)	15.1 lpm 0.9 m ³ /hr	23 lpm 1.4 m ³ /hr	41 lpm 2.5 m ³ /hr	77 lpm 4.6 m ³ /hr	114 lpm 6.8 m ³ /hr	150 lpm 8.9 m ³ /hr
Flow Rate	1.6 gpm	2.4 gpm	4.4 gpm	8.3 gpm	12 gpm	16 gpm
NSF Standard (40mJ/cm ² @95% UVT)	6.1 lpm 0.36 m ³ /hr	9.4 lpm 0.5 m ³ /hr	17 lpm 1.0 m ³ /hr	31 lpm 1.9 m ³ /hr	45.4 lpm 2.7 m ³ /hr	59 lpm 3.6 m ³ /hr
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Lamp Watts	8	15	22	39	50	42
Power (Watts)	14	20	30	49	62	51
Max. Current (amps)	1	1	1	1	1	1
Replacement Lamp	UV-SPH-2-L	UV-SPH-3-L	UV-SPH-6-L	UV-SPH-11-L	UV-SPH-15-L	UV-SPH-21-L
Replacement Sleeve	UV-SPH-2SLV	UV-SPH-3SLV	UV-SPH-6SLV	UV-SPH-11SLV	UV-SPH-15SLV	UV-SPH-21SLV
Replacement Controller	USA: UV-CH-US; European: UV-CH-EU; British Standard: UV-CH-UK; Australia/NZ: UV-CH-AU					
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing					
Reactor Dimensions	2.5 × 10.3" (6.4 × 26.2cm)	2.5 × 14.3" (6.4 × 36.4cm)	2.5 × 21.3" (6.4 × 54.2cm)	2.5 × 35.2" (6.4 × 89.5cm)	2.5 × 40" (6.4 × 101.6cm)	3.5 × 36.1" (8.9 × 97.7cm)
Controller Dimensions	6.8 × 3.6 × 4" (17.2 × 9.2 × 10.2cm)					
Electrical	90-265V/50-60Hz					
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.					
European CEE 7/7	UV-SPH-2-EU	UV-SPH-3-EU	UV-SPH-6-EU	UV-SPH-11-EU	UV-SPH-15-EU	UV-SPH-21-EU
British Standard BS 1363	UV-SPH-2-UK	UV-SPH-3-UK	UV-SPH-6-UK	UV-SPH-11-UK	UV-SPH-15-UK	UV-SPH-21-UK
Australia/New Zealand 3112	UV-SPH-2-AU	UV-SPH-3-AU	UV-SPH-6-AU	UV-SPH-11-AU	UV-SPH-15-AU	UV-SPH-21-AU
Operating Pressure	10-150 psi (7-10.3 bar)					
Operating Water Temp.	36-104°F (2-40°C)					
Lamp Change Reminder	YES (4-digit LED Display)					
Lamp Out Indicator	YES – Audible & Visual					
Shipping Weight	7.1 lbs (3.2 kg)	8.0 lbs (3.6 kg)	9.3 lbs (4.2 kg)	15.0 lbs (6.8 kg)	17.6 lbs (8.0 kg)	16.5 lbs (7.5 kg)

CONDITIONS FOR USE

Your system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the system to perform as tested, the following water quality parameters must be met.

Parameter	Level
Hardness	<120 mg/L (7 gpg)
Iron (Fe)	< 0.3 mg/L (ppm)
Manganese (Mn)	< 0.05 mg/L (ppm)
Tannins	< 0.1 mg/L (ppm)
Turbidity	< 1 NTU
Transmittance	> 75% UVT

For levels outside these limits, please contact sales@appliedmembranes.com for further technical assistance.

MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

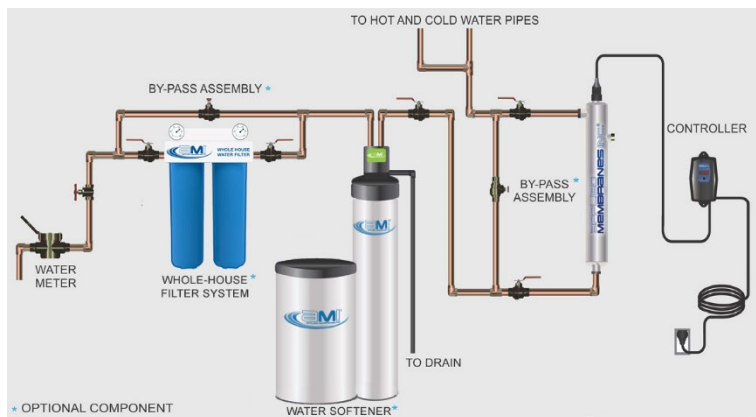
CONTACT US TO ORDER

☎ (760) 727-3711

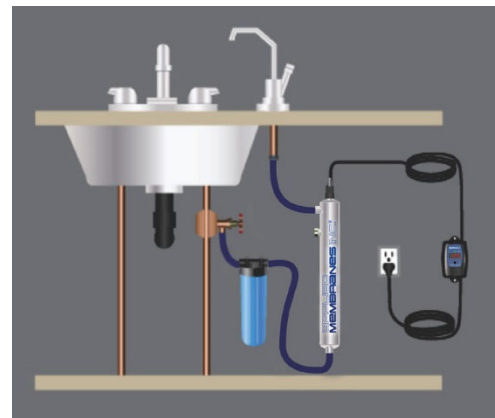
✉ sales@appliedmembranes.com

🌐 www.appliedmembranes.com

TYPICAL POINT-OF-ENTRY INSTALLATION



TYPICAL POINT-OF-USE INSTALLATION





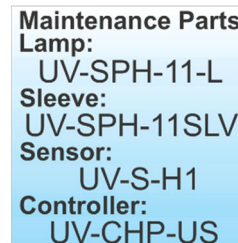
Helios Plus Series - 2 to 21 gpm UV with 4-Color Controller

- Color Screen Controller with Protected Lamp Replacement, Includes QR Codes, Full Diagnostics & Warnings*
- Expandability Port for Future Upgrades and Options*
- Visual Sight Port For "Lamp-On" Verification
- Audible and Visual Lamp Change Reminders
- Audible and Visual Lamp Failure Indicators
- Axial Flow 304 Stainless Steel Reactor Chamber
- Reliable, Industry Proven, Coated UV Lamps with Ceramic Bases for Durability and Long Life (9,000 Hours)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues

Model No.	Service Flow		Inlet/Outlet
	gpm	lpm	
UV-SPH-2P	2.0	7.6	½" FNPT
UV-SPH-3P	3.1	11	½" MNPT
UV-SPH-6P	5.8	23	¾" MNPT
UV-SPH-11P	11.0	41	¾" MNPT
UV-SPH-15P	15.0	57	1" MNPT
UV-SPH-21P	21.0	79	1" MNPT



HELIOS PLUS SAMPLE SCREENS



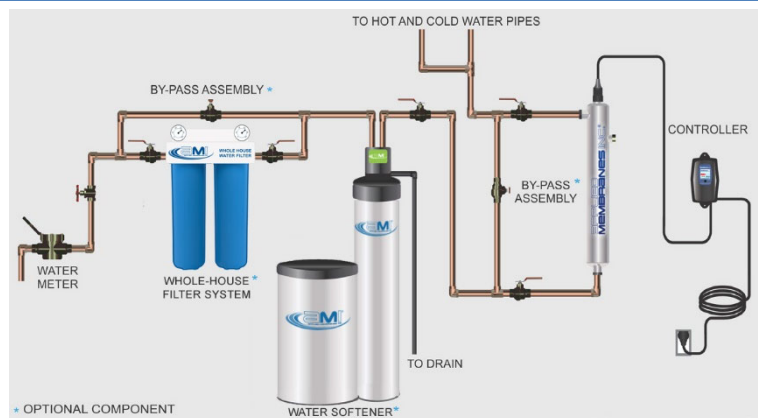
*Features unique to the Helios Plus Series



Helios Plus Series UV Systems Specifications

UV System Model →	UV-SPH-2P	UV-SPH-3P	UV-SPH-6P	UV-SPH-11P	UV-SPH-15P	UV-SPH-21P
Flow Rate	2 gpm	3 gpm	6 gpm	11 gpm	15 gpm	21 gpm
Recommended (30mJ/cm ² @95% UVT)	7.6 lpm 0.45 m ³ /hr	11.4 lpm 0.7 m ³ /hr	22.7 lpm 1.4 m ³ /hr	41 lpm 2.5 m ³ /hr	57 lpm 3.4 m ³ /hr	79 lpm 4.8 m ³ /hr
Flow Rate	4 gpm	6 gpm	11 gpm	20 gpm	30 gpm	39 gpm
US Public Health Std. (16mJ/cm ² @95% UVT)	15.1 lpm 0.9 m ³ /hr	23 lpm 1.4 m ³ /hr	41 lpm 2.5 m ³ /hr	77 lpm 4.6 m ³ /hr	114 lpm 6.8 m ³ /hr	150 lpm 8.9 m ³ /hr
Flow Rate	1.6 gpm	2.4 gpm	4.4 gpm	8.3 gpm	12 gpm	16 gpm
NSF Standard (40mJ/cm ² @95% UVT)	6.1 lpm 0.36 m ³ /hr	9.4 lpm 0.5 m ³ /hr	17 lpm 1.0 m ³ /hr	31 lpm 1.9 m ³ /hr	45.4 lpm 2.7 m ³ /hr	59 lpm 3.6 m ³ /hr
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Lamp Watts	8	15	22	39	50	42
Power (Watts)	14	20	30	49	62	51
Max. Current (amps)	1	1	1	1	1	1
Replacement Lamp	UV-SPH-2-L	UV-SPH-3-L	UV-SPH-6-L	UV-SPH-11-L	UV-SPH-15-L	UV-SPH-21-L
Replacement Sleeve	UV-SPH-2SLV	UV-SPH-3SLV	UV-SPH-6SLV	UV-SPH-11SLV	UV-SPH-15SLV	UV-SPH-21SLV
Replacement Controller	USA: UV-CHP-US; European: UV-CHP-EU; British Standard: UV-CHP-UK; Australia/NZ: UV-CHP-AU					
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing					
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2cm)	2.5 x 14.3" (6.4 x 36.4cm)	2.5 x 21.3" (6.4 x 54.2cm)	2.5 x 35.2" (6.4 x 89.5cm)	2.5 x 40" (6.4 x 101.6cm)	3.5 x 36.1" (8.9 x 97.7cm)
Controller Dimensions	6.8 x 3.6 x 4" (17.2 x 9.2 x 10.2cm)					
Electrical	90-265V/50-60Hz					
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.					
European CEE 7/7	UV-SPH-2P-EU	UV-SPH-3P-EU	UV-SPH-6P-EU	UV-SPH-11P-EU	UV-SPH-15P-EU	UV-SPH-21P-EU
British Standard BS 1363	UV-SPH-2P-UK	UV-SPH-3P-UK	UV-SPH-6P-UK	UV-SPH-11P-UK	UV-SPH-15P-UK	UV-SPH-21P-UK
Australia/New Zealand 3112	UV-SPH-2P-AU	UV-SPH-3P-AU	UV-SPH-6P-AU	UV-SPH-11P-AU	UV-SPH-15P-AU	UV-SPH-21P-AU
Operating Pressure	10-150 psi (7-10.3 bar)					
Operating Water Temp.	36-104°F (2-40°C)					
UV Monitor	Available with UV Sensor Add-On: Up to 15 gpm systems: UV-S-H1, 21 gpm: UV-S-H2					
Solenoid Output	Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1					
Dry Contacts	Equipped but Requires Remote Alarm Module Add-on UV-MOD-RAM					
4-20mA Output	Equipped but Requires 4-20mA Module Add-On UV-MOD-420					
Lamp Change Reminder	YES – Audible & Visual Full-Color Graphic Display with Countdown					
Lamp Out Indicator	YES – Audible & Visual Full-Color Graphic Display					
Shipping Weight	7.1 lbs (3.2 kg)	8.0 lbs (3.6 kg)	9.3 lbs (4.2 kg)	15.0 lbs (6.8 kg)	17.6 lbs (8.0 kg)	16.5 lbs (7.5 kg)

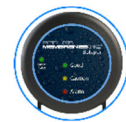
TYPICAL POINT-OF-ENTRY INSTALLATION



OPTIONAL EQUIPMENT MODULES

Remote Water Quality Monitor

Compatible with Helios Plus & Ultra systems and allows for remote monitoring of all alarms on the UV system. Three LEDs visually display system functionality from up to 150' (46m) away (UV-MOD-ALARM)



UV Sensor Module allows the 254nm UV wavelength to be measured and displayed via the controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all reactors.



Solenoid Module Will power a remote normally closed solenoid valve (not included). Solenoid will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V. (UV-MOD-SOL1) or 230V. (UV-MOD-SOL2)



TRV (temperature management relief valve) allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.



4-20mA Module will signal transfer to a remote device such as a data logger or computer. Order UV-MOD-420.



Remote Alarm (Dry Contact) Module to signal transfer to a remote alarm or dry contacts. Order UV-MOD-RAM



MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

CONTACT US TO ORDER

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✉ sales@appliedmembranes.com

🌐 www.appliedmembranes.com



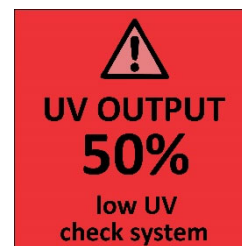
Helios Ultra Series - 2 to 21 gpm UV with UV Monitoring

- Continuous UV Monitoring with UV Output Display (as %)*
- System Diagnostics and Potential Fault Codes*
- Color Screen Controller with Protected Lamp Replacement, Includes QR Codes, Full Diagnostics & Warnings
- Expandability Port for Future Upgrades and Options
- Audible and Visual Lamp Change Reminders
- Audible and Visual Lamp Failure Indicators
- Axial Flow 304 Stainless Steel Reactor Chamber
- Reliable, Industry Proven, Coated UV Lamps with Ceramic Bases for Durability and Long Life (9,000 Hours)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues

Model No.	Service Flow		Inlet/Outlet
	gpm	lpm	
UV-SPH-2U	2.0	7.6	½" FNPT
UV-SPH-3U	3.1	11	½" MNPT
UV-SPH-6U	5.8	23	¾" MNPT
UV-SPH-11U	11.0	41	¾" MNPT
UV-SPH-15U	15.0	57	1" MNPT
UV-SPH-21U	21.0	79	1" MNPT



HELIOS ULTRA SAMPLE SCREENS



*Features unique to the Helios Ultra Series



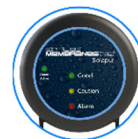
Helios Ultra Series Monitored UV Systems Specifications

UV System Model →	UV-SPH-2U	UV-SPH-3U	UV-SPH-6U	UV-SPH-11U	UV-SPH-15U	UV-SPH-21U
Flow Rate	2 gpm	3 gpm	6 gpm	11 gpm	15 gpm	21 gpm
Recommended (30mJ/cm ² @95% UVT)	7.6 lpm 0.45 m ³ /hr	11.4 lpm 0.7 m ³ /hr	22.7 lpm 1.4 m ³ /hr	41 lpm 2.5 m ³ /hr	57 lpm 3.4 m ³ /hr	79 lpm 4.8 m ³ /hr
Flow Rate US Public Health Std. (16mJ/cm ² @95% UVT)	4 gpm 0.9 m ³ /hr	6 gpm 1.4 m ³ /hr	11 gpm 2.5 m ³ /hr	20 gpm 4.6 m ³ /hr	30 gpm 6.8 m ³ /hr	39 gpm 8.9 m ³ /hr
Flow Rate NSF Standard (40mJ/cm ² @95% UVT)	1.6 gpm 6.1 lpm 0.36 m ³ /hr	2.4 gpm 9.4 lpm 0.5 m ³ /hr	4.4 gpm 17 lpm 1.0 m ³ /hr	8.3 gpm 31 lpm 1.9 m ³ /hr	12 gpm 45.4 lpm 2.7 m ³ /hr	16 gpm 59 lpm 3.6 m ³ /hr
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Lamp Watts	8	15	22	39	50	42
Power (Watts)	14	20	30	49	62	51
Max. Current (amps)	1	1	1	1	1	1
Replacement Lamp	UV-SPH-2-L	UV-SPH-3-L	UV-SPH-6-L	UV-SPH-11-L	UV-SPH-15-L	UV-SPH-21-L
Replacement Sleeve	UV-SPH-2SLV	UV-SPH-3SLV	UV-SPH-6SLV	UV-SPH-11SLV	UV-SPH-15SLV	UV-SPH-21SLV
Replacement Controller	USA: UV-CHP-US; European: UV-CHP-EU; British Standard: UV-CHP-UK; Australia/NZ: UV-CHP-AU					
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing					
Reactor Dimensions	2.5 × 10.3" (6.4 × 26.2cm)	2.5 × 14.3" (6.4 × 36.4cm)	2.5 × 21.3" (6.4 × 54.2cm)	2.5 × 35.2" (6.4 × 89.5cm)	2.5 × 40" (6.4 × 101.6cm)	3.5 × 36.1" (8.9 × 97.7cm)
Controller Dimensions	6.8 × 3.6 × 4" (17.2 × 9.2 × 10.2cm)					
Electrical	90-265V/50-60Hz					
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.					
European CEE 7/7	UV-SPH-2P-EU	UV-SPH-3P-EU	UV-SPH-6P-EU	UV-SPH-11P-EU	UV-SPH-15P-EU	UV-SPH-21P-EU
British Standard BS 1363	UV-SPH-2P-UK	UV-SPH-3P-UK	UV-SPH-6P-UK	UV-SPH-11P-UK	UV-SPH-15P-UK	UV-SPH-21P-UK
Australia/New Zealand 3112	UV-SPH-2P-AU	UV-SPH-3P-AU	UV-SPH-6P-AU	UV-SPH-11P-AU	UV-SPH-15P-AU	UV-SPH-21P-AU
Operating Pressure	10-150 psi (7-10.3 bar)					
Operating Water Temp.	36-104°F (2-40°C)					
UV Monitor	YES – Standard on Helios Ultra Series					
Solenoid Output	Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1					
Dry Contacts	Equipped but Requires Remote Alarm Module Add-On UV-MOD-RAM					
4-20mA Output	Equipped but Requires 4-20mA Module Add-On UV-MOD-420					
Lamp Change Reminder	YES – Audible & Visual Full-Color Graphic Display with Countdown					
Lamp Out Indicator	YES – Audible & Visual Full-Color Graphic Display					
Shipping Weight	7.1 lbs (3.2 kg)	8.0 lbs (3.6 kg)	9.3 lbs (4.2 kg)	15.0 lbs (6.8 kg)	17.6 lbs (8.0 kg)	16.5 lbs (7.5 kg)

OPTIONAL EQUIPMENT MODULES

Water Quality Monitor

Compatible with Helios Plus & Ultra systems: allows remote monitoring of all alarms on the UV system. Three LEDs visually display system functionality from up to 150" (46m) away (UV-MOD-ALARM)



Solenoid Module Will power a remote normally closed solenoid valve (not included). Solenoid will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V. (UV-MOD-SOL1) or 230V. (UV-MOD-SOL2)



TRV (temperature management relief valve) allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.



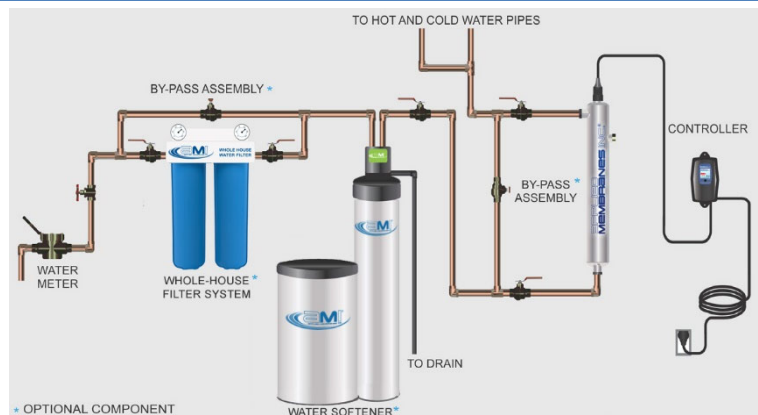
4-20mA Module will signal transfer to a remote device such as a data logger or computer. Order UV-MOD-420.



Remote Alarm (Dry Contact) Module to signal transfer to a remote alarm or dry contacts. Order UV-MOD-RAM



TYPICAL POINT-OF-ENTRY INSTALLATION



MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

CONTACT US TO ORDER

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✉ sales@appliedmembranes.com

🌐 www.appliedmembranes.com



HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

Helios HP Series - 5 to 40 gpm Basic UV Systems

- Solapur High Performance Helios HP Series Use High-Output Lamps to Offer Higher Service Flow Rates.
- Built-In UV Lamp Countdown Timer and Total Elapsed Running Time Readouts with a 4-Digit LED Display
- Visual Sight Port for "Lamp-On" Verification
- Audible and Visual Lamp Change Reminders
- Audible and Visual Lamp Failure Indicators
- Axial Flow 316L Stainless Steel Reactor Chamber
- Designed & Manufactured to ASME Pressure Vessel Standards
- Reliable, Industry Proven, High-Output Coated UV Lamps with Ceramic Bases for Durability and Long Life (10,000 Hours)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues



Model No.	Service Flow		Inlet/ Outlet
	gpm	lpm	
UV-SPH-5-HP	5	19	½" MNPT
UV-SPH-10-HP	10	38	¾" MNPT
UV-SPH-15-HP	15	57	1" MNPT
UV-SPH-25-HP	25	95	1" MNPT
UV-SPH-40-HP	40	151	1-½" MNPT



APPLIED MEMBRANES INC.®
 Industry Leader in RO Expertise and Membrane Applications Since 1983™





HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

Helios HP Series UV Systems Specifications

UV System Model →	UV-SPH-5-HP	UV-SPH-10-HP	UV-SPH-15-HP	UV-SPH-25-HP	UV-SPH-40-HP
Flow Rate	5 gpm	10 gpm	15 gpm	25 gpm	40 gpm
Recommended (30mJ/cm ² @95% UVT)	18.9 lpm	37.9 lpm	57 lpm	95 lpm	151 lpm
	1.1 m ³ /hr	2.3 m ³ /hr	3.4 m ³ /hr	5.7 m ³ /hr	9.3 m ³ /hr
Flow Rate	8 gpm	19 gpm	27 gpm	47 gpm	78 gpm
US Public Health Std. (16mJ/cm ² @95% UVT)	30.3 lpm	71.9 lpm	102.2 lpm	178 lpm	295 lpm
	1.8 m ³ /hr	4.3 m ³ /hr	6.1 m ³ /hr	10.7 m ³ /hr	17.7 m ³ /hr
Flow Rate	3 gpm	7 gpm	11 gpm	19 gpm	31 gpm
NSF Standard (40mJ/cm ² @95% UVT)	11.4 lpm	26.5 lpm	41 lpm	72 lpm	117 lpm
	0.7 m ³ /hr	1.6 m ³ /hr	2.5 m ³ /hr	4.3 m ³ /hr	7.0 m ³ /hr
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1-½" MNPT
Lamp Watts	18	34	45	67	101
Power (Watts)	20 (19 @ 230V)	38 (36 @ 230V)	57 (48 @ 230V)	73 (72 @ 230V)	115 (108 @ 230V)
Replacement Lamp	UV-SPH-5-HP-L	UV-SPH-10-HP-L	UV-SPH-15-HP-L	UV-SPH-25-HP-L	UV-SPH-40-HP-L
Replacement Sleeve	UV-SPH-5-HPSLV	UV-SPH-10-HPSLV	UV-SPH-15-HPSLV	UV-SPH-25-HPSLV	UV-SPH-40-HPSLV
Replacement Controller	UV-CH-HP (All Voltages. Power cord is sold separately.)				
Chamber Material	Polished & Passivated 316L Stainless Steel, A249 Pressure Rated Tubing				
Reactor Dimensions	3.5 × 11.7" (8.9 × 29.8cm)	35 × 16.5" (8.9 × 41.8cm)	3.5 × 20.0" (8.9 × 50.8cm)	3.5 × 26.9" (8.9 × 68.3cm)	3.5 × 40.7" (8.9 × 103.4cm)
Controller Dimensions	8.6 × 4.2 × 3.5" (21.7 × 10.8 × 8.9cm)				
Electrical	90-265V/50-60Hz				
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.				
European CEE 7/7	UV-SPH-5-HP-EU	UV-SPH-10-HP-EU	UV-SPH-15-HP-EU	UV-SPH-25-HP-EU	UV-SPH-40-HP-EU
British Standard BS 1363	UV-SPH-5-HP-UK	UV-SPH-10-HP-UK	UV-SPH-15-HP-UK	UV-SPH-25-HP-UK	UV-SPH-40-HP-UK
Australia/New Zealand 3112	UV-SPH-5-HP-AU	UV-SPH-10-HP-AU	UV-SPH-15-HP-AU	UV-SPH-25-HP-AU	UV-SPH-40-HP-AU
Operating Pressure	10-150 psi (7-10.3 bar)				
Operating Water Temp.	36-104°F (2-40°C)				
Lamp Change Reminder	YES (4-digit LED Display)				
Lamp Out Indicator	YES - Audible & Visual				
Shipping Weight	9.9 lbs (4.5 kg)	11.9 lbs (5.4 kg)	13.2 lbs (6.0 kg)	15.9 lbs (7.2 kg)	21.4 lbs (9.7 kg)

CONDITIONS FOR USE

Your system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the system to perform as tested, the following water quality parameters must be met.

Parameter	Level
Hardness	<120 mg/L (7 gpg)
Iron (Fe)	< 0.3 mg/L (ppm)
Manganese (Mn)	< 0.05 mg/L (ppm)
Tannins	< 0.1 mg/L (ppm)
Turbidity	< 1 NTU
Transmittance	> 75% UVT

For levels outside these limits, please contact sales@appliedmembranes.com for further technical assistance.

MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

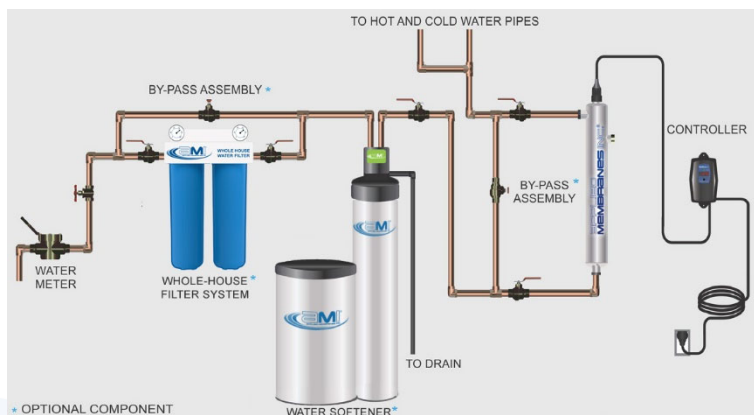
CONTACT US TO ORDER

☎ (760) 727-3711

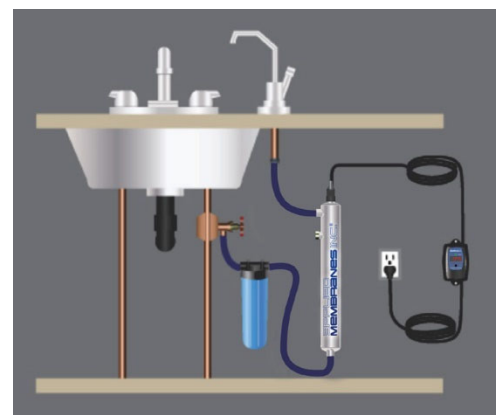
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TYPICAL POINT-OF-ENTRY INSTALLATION



TYPICAL POINT-OF-USE INSTALLATION



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📍 Vista, CA, USA



HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

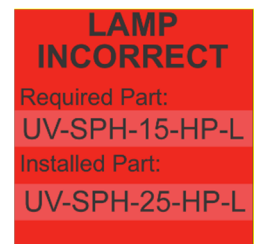
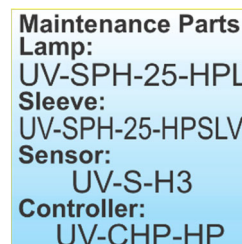
Helios HP Plus Series - 5 to 40 gpm UV with 4-Color Controller

- Color Screen Controller with Protected Lamp Replacement. Includes QR Codes, Full Diagnostics & Warnings*
- Expandability Port for Future Upgrades and Options*
- Visual Sight Port For "Lamp-On" Verification
- Audible and Visual Lamp Change Reminders
- Audible and Visual Lamp Failure Indicators
- Axial Flow 316L Stainless Steel Reactor Chamber, Designed & Manufactured to ASME Pressure Vessel Standards
- Reliable, Industry Proven, High-Output Coated UV Lamps with Ceramic Bases for Durability and Long Life (10,000 Hours)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues

Model No.	Service Flow		Inlet/ Outlet
	gpm	lpm	
UV-SPH-5P-HP	5	19	½" MNPT
UV-SPH-10P-HP	10	38	¾" MNPT
UV-SPH-15P-HP	15	57	1" MNPT
UV-SPH-25P-HP	25	95	1" MNPT
UV-SPH-40P-HP	40	151	1-½" MNPT



HELIOS PLUS SAMPLE SCREENS



*Features unique to the Helios Plus Series



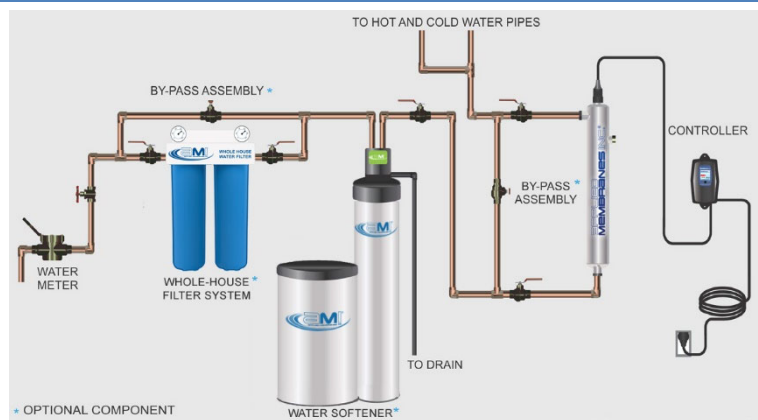


HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

Helios HP Plus Series UV Systems Specifications

UV System Model →	UV-SPH-5P-HP	UV-SPH-10P-HP	UV-SPH-15P-HP	UV-SPH-25P-HP	UV-SPH-40P-HP
Flow Rate Recommended (30mJ/cm ² @95% UVT)	5 gpm 18.9 lpm 1.1 m ³ /hr	10 gpm 37.9 lpm 2.3 m ³ /hr	15 gpm 57 lpm 3.4 m ³ /hr	25 gpm 95 lpm 5.7 m ³ /hr	40 gpm 151 lpm 9.3 m ³ /hr
Flow Rate US Public Health Std. (16mJ/cm ² @95% UVT)	8 gpm 30.3 lpm 1.8 m ³ /hr	19 gpm 71.9 lpm 4.3 m ³ /hr	27 gpm 102.2 lpm 6.1 m ³ /hr	47 gpm 178 lpm 10.7 m ³ /hr	78 gpm 295 lpm 17.7 m ³ /hr
Flow Rate NSF Standard (40mJ/cm ² @95% UVT)	3 gpm 11.4 lpm 0.7 m ³ /hr	7 gpm 26.5 lpm 1.6 m ³ /hr	11 gpm 41 lpm 2.5 m ³ /hr	19 gpm 72 lpm 4.3 m ³ /hr	31 gpm 117 lpm 7.0 m ³ /hr
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1-½" MNPT
Lamp Watts	18	34	45	67	101
Power (Watts)	20 (19 @ 230V)	38 (36 @ 230V)	57 (48 @ 230V)	73 (72 @ 230V)	115 (108 @ 230V)
Replacement Lamp	UV-SPH-5-HP-L	UV-SPH-10-HP-L	UV-SPH-15-HP-L	UV-SPH-25-HP-L	UV-SPH-40-HP-L
Replacement Sleeve	UV-SPH-5-HPSLV	UV-SPH-10-HPSLV	UV-SPH-15-HPSLV	UV-SPH-25-HPSLV	UV-SPH-40-HPSLV
Replacement Controller	UV-CH-HP (All Voltages. Power cord is sold separately.)				
Chamber Material	Polished & Passivated 316L Stainless Steel, A249 Pressure Rated Tubing				
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8cm)	35 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9cm)				
Electrical	90-265V/50-60Hz				
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.				
European CEE 7/7	UV-SPH-5P-HP-EU	UV-SPH-10P-HP-EU	UV-SPH-15P-HP-EU	UV-SPH-25P-HP-EU	UV-SPH-40P-HP-EU
British Standard BS 1363	UV-SPH-5P-HP-UK	UV-SPH-10P-HP-UK	UV-SPH-15P-HP-UK	UV-SPH-25P-HP-UK	UV-SPH-40P-HP-UK
Australia/New Zealand 3112	UV-SPH-5P-HP-AU	UV-SPH-10P-HP-AU	UV-SPH-15P-HP-AU	UV-SPH-25P-HP-AU	UV-SPH-40P-HP-AU
Operating Pressure	10-150 psi (7-10.3 bar)				
Operating Water Temp.	36-104°F (2-40°C)				
UV Monitor	Available with UV Sensor Add-On: Up to 15 gpm systems: UV-S-H1, 21 gpm: UV-S-H2				
Solenoid Output	Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1				
Dry Contacts	Equipped but Requires Remote Alarm Module Add-On UV-MOD-RAM				
4-20mA Output	Equipped but Requires 4-20mA Module Add-On UV-MOD-420				
Lamp Change Reminder	YES – Audible & Visual Full-Color Graphic Display with Countdown				
Lamp Out Indicator	YES – Audible & Visual Full-Color Graphic Display				
Shipping Weight	9.9 lbs (4.5 kg)	11.9 lbs (5.4 kg)	13.2 lbs (6.0 kg)	15.9 lbs (7.2 kg)	21.4 lbs (9.7 kg)

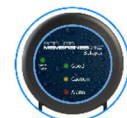
TYPICAL POINT-OF-ENTRY INSTALLATION



OPTIONAL EQUIPMENT MODULES

Water Quality Monitor

Compatible with Helios Plus & Ultra systems and allows for remote monitoring of all alarms on the UV system. Three LEDs visually display system functionality from up to 150' (46m) away. (UV-MOD-ALARM)



UV Sensor Module allows the 254nm UV wavelength to be measured and displayed via the controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all reactors.



Solenoid Module Will power a remote normally closed solenoid valve (not included). Solenoid will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V. (UV-MOD-SOL1) or 230V. (UV-MOD-SOL2)



TRV (temperature management relief valve) allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.



4-20mA Module will signal transfer to a remote device such as a data logger or computer. Order UV-MOD-420.



Remote Alarm (Dry Contact) Module to signal transfer to a remote alarm or dry contacts. Order UV-MOD-RAM



MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

CONTACT US TO ORDER

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HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

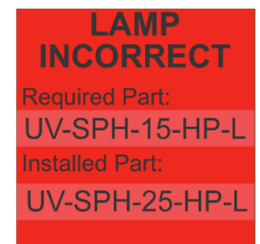
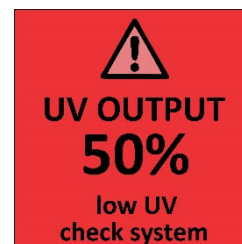
Helios HP Ultra Series - 5 to 40 gpm UV with UV Monitoring

- Continuous UV Monitoring with UV Output Display (as %)*
- System Diagnostics and Potential Fault Codes*
- Color Screen Controller with Protected Lamp Replacement, Includes QR Codes, Full Diagnostics & Warnings
- Expandability Port for Future Upgrades and Options
- Audible and Visual Lamp Change Reminders
- Audible and Visual Lamp Failure Indicators
- Axial Flow 316L Stainless Steel Reactor Chamber, Designed & Manufactured to ASME Pressure Vessel Standards
- Reliable, Industry Proven, High-Output Coated UV Lamps with Ceramic Bases for Durability and Long Life (10,000 Hours)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues



Model No.	Service Flow		Inlet/ Outlet
	gpm	lpm	
UV-SPH-5U-HP	5	19	½" MNPT
UV-SPH-10U-HP	10	38	¾" MNPT
UV-SPH-15U-HP	15	57	1" MNPT
UV-SPH-25U-HP	25	95	1" MNPT
UV-SPH-40U-HP	40	151	1-½" MNPT

HELIOS HP ULTRA SAMPLE SCREENS



*Features unique to the Helios Ultra Series

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HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

Helios HP Ultra Series Monitored UV Systems Specifications

UV System Model →	UV-SPH-5U-HP	UV-SPH-10U-HP	UV-SPH-15U-HP	UV-SPH-25U-HP	UV-SPH-40U-HP
Flow Rate	5 gpm	10 gpm	15 gpm	25 gpm	40 gpm
Recommended (30mJ/cm ² @ 95% UVT)	18.9 lpm	37.9 lpm	57 lpm	95 lpm	151 lpm
	1.1 m ³ /hr	2.3 m ³ /hr	3.4 m ³ /hr	5.7 m ³ /hr	9.3 m ³ /hr
Flow Rate	8 gpm	19 gpm	27 gpm	47 gpm	78 gpm
US Public Health Std. (16mJ/cm ² @ 95% UVT)	30.3 lpm	71.9 lpm	102.2 lpm	178 lpm	295 lpm
	1.8 m ³ /hr	4.3 m ³ /hr	6.1 m ³ /hr	10.7 m ³ /hr	17.7 m ³ /hr
Flow Rate	3 gpm	7 gpm	11 gpm	19 gpm	31 gpm
NSF Standard (40mJ/cm ² @ 95% UVT)	11.4 lpm	26.5 lpm	41 lpm	72 lpm	117 lpm
	0.7 m ³ /hr	1.6 m ³ /hr	2.5 m ³ /hr	4.3 m ³ /hr	7.0 m ³ /hr
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1-½" MNPT
Lamp Watts	18	34	45	67	101
Power (Watts)	20 (19 @ 230V)	38 (36 @ 230V)	57 (48 @ 230V)	73 (72 @ 230V)	115 (108 @ 230V)
Replacement Lamp	UV-SPH-5-HP-L	UV-SPH-10-HP-L	UV-SPH-15-HP-L	UV-SPH-25-HP-L	UV-SPH-40-HP-L
Replacement Sleeve	UV-SPH-5-HPSLV	UV-SPH-10-HPSLV	UV-SPH-15-HPSLV	UV-SPH-25-HPSLV	UV-SPH-40-HPSLV
Replacement Controller	UV-CH-HP (All Voltages. Power cord is sold separately.)				
Chamber Material	Polished & Passivated 316L Stainless Steel, A249 Pressure Rated Tubing				
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8cm)	35 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9cm)				
Electrical	90-265V/50-60Hz				
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.				
European CEE 7/7	UV-SPH-5U-HP-EU	UV-SPH-10U-HP-EU	UV-SPH-15U-HP-EU	UV-SPH-25U-HP-EU	UV-SPH-40U-HP-EU
British Standard BS 1363	UV-SPH-5U-HP-UK	UV-SPH-10U-HP-UK	UV-SPH-15U-HP-UK	UV-SPH-25U-HP-UK	UV-SPH-40U-HP-UK
Australia/New Zealand 3112	UV-SPH-5U-HP-AU	UV-SPH-10U-HP-AU	UV-SPH-15U-HP-AU	UV-SPH-25U-HP-AU	UV-SPH-40U-HP-AU
Operating Pressure	10-150 psi (7-10.3 bar)				
Operating Water Temp.	36-104°F (2-40°C)				
UV Monitor	YES – Standard on Helios Ultra Series				
Solenoid Output	Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1				
Dry Contacts	Equipped but Requires Remote Alarm Module Add-on UV-MOD-RAM				
4-20mA Output	Equipped but Requires 4-20mA Module Add-on UV-MOD-420				
Lamp Change Reminder	YES – Audible & Visual Full-Color Graphic Display with Countdown				
Lamp Out Indicator	YES – Audible & Visual Full-Color Graphic Display				
Shipping Weight	9.9 lbs (4.5 kg)	11.9 lbs (5.4 kg)	13.2 lbs (6.0 kg)	15.9 lbs (7.2 kg)	21.4 lbs (9.7 kg)

OPTIONAL EQUIPMENT MODULES

Water Quality Monitor

Compatible with Helios Plus & Ultra systems: allows remote monitoring of all alarms on the UV system. Three LEDs visually display system functionality from up to 150' (46m) away. (UV-MOD-ALARM)



Solenoid Module Will power a remote normally closed solenoid valve (not included). Solenoid will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V. (UV-MOD-SOL1) or 230V. (UV-MOD-SOL2)



TRV (temperature management relief valve)

allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.



4-20mA Module will signal transfer to a remote device such as a data logger or computer. Order UV-MOD-420.

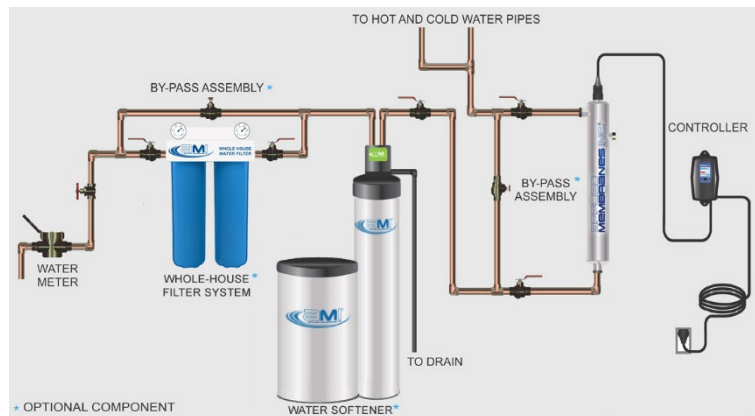


Remote Alarm (Dry Contact) Module

to signal transfer to a remote alarm or dry contacts. Order UV-MOD-RAM



TYPICAL POINT-OF-ENTRY INSTALLATION



MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

CONTACT US TO ORDER

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NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

Aurora NSF A Series – Certified to NSF Standard 55, Class A

- Tested and Certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class A
- Continuous True 254nm UV Monitoring with UV Output Display (as a %)
- System Diagnostics and Potential Fault Codes
- Color Screen Controller with Protected Lamp Replacement, Includes QR Codes, Full Diagnostics & Warnings
- Expandability Port for Future Upgrades and Options
- Audible and Visual Lamp Change Reminders
- Audible and Visual Lamp Failure Indicators
- Axial Flow Stainless Steel Reactor Chamber, Designed & Manufactured to ASME Pressure Vessel Standards
- Reliable, Industry Proven, High-Output Coated UV Lamps with Ceramic Bases for Durability and Long Life (9,000 Hours for standard, 10,000 Hours for HP)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues



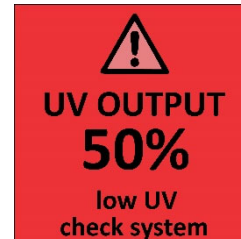
Model No. (Standard)	Service Flow	
	gpm	lpm
UV-SPNSFA-1.6M	1.6	6.1
UV-SPNSFA-2.2M	2.2	8.3
UV-SPNSFA-3.4M	3.4	12.9
UV-SPNSFA-6.3M	6.3	23.8
UV-SPNSFA-7.9M	7.9	29.9

Model No. (HP) High Output	Service Flow	
	gpm	lpm
UV-SPNSFA-2.2M-HP	2.2	8.3
UV-SPNSFA-4.0M-HP	4.0	15.1
UV-SPNSFA-5.4M-HP	5.4	20.4
UV-SPNSFA-7.9M-HP	7.9	29.9
UV-SPNSFA-18M-HP	18.0	68.1



System Tested and Certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class A

AURORA NSF-A SAMPLE SCREENS



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NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

Aurora NSF A Series UV System Specifications

UV System Model →	Aurora NSFA Series Standard					Aurora NSFA HP Series- High Output Lamps				
	UV-SPNSFA-1.6M	UV-SPNSFA-2.2M	UV-SPNSFA-3.4M	UV-SPNSFA-6.3M	UV-SPNSFA-7.9M	UV-SPNSFA-2.2M-HP	UV-SPNSFA-4.0M-HP	UV-SPNSFA-5.4M-HP	UV-SPNSFA-7.9M-HP	UV-SPNSFA-18M-HP
NSF Class A Flow Rate (40mJ/cm ² @ 95% UVT)	1.6 gpm	2.2 gpm	3.4 gpm	6.3 gpm	7.9 gpm	2.2 gpm	4.0 gpm	5.4 gpm	7.9 gpm	18.0 gpm
	6.1 lpm	8.3 lpm	12.9 lpm	23.8 lpm	29.9 lpm	8.3 lpm	15.1 lpm	20.4 lpm	29.9 lpm	68.1 lpm
	0.36 m ³ /hr	0.5 m ³ /hr	0.77 m ³ /hr	1.43 m ³ /hr	1.79 m ³ /hr	0.5 m ³ /hr	0.91 m ³ /hr	1.23 m ³ /hr	1.79 m ³ /hr	4.08 m ³ /hr
Flow Restrictor	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Port Size	½" MNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1-½" MNPT
Lamp Watts	8	15	22	39	50	18	34	45	67	101
Power (Watts)	14	20	30	49	62	20 (19 @230v)	38 (36 @230v)	57(48 @230v)	73 (72 @230v)	115 (108 @230v)
Lamp Life	9,000 Hours					10,000 Hours				
Replacement Lamp	UV-SPH-2-L	UV-SPH-3-L	UV-SPH-6-L	UV-SPH-11-L	UV-SPH-15-L	UV-SPH-5-HPL	UV-SPH-10-HPL	UV-SPH-15-HPL	UV-SPH-25-HPL	UV-SPH-40-HPL
Replacement Sleeve	UV-SPH-2SLV	UV-SPH-3SLV	UV-SPH-6SLV	UV-SPH-11SLV	UV-SPH-15SLV	UV-SPH-5SLV	UV-SPH-10SLV	UV-SPH-15SLV	UV-SPH-25SLV	UV-SPH-40SLV
Replacement UV Sensor	UV-S-H1V					UV-S-H3V				
Replacement Controller	USA: UV-CHP-US; European: UV-CHP-EU; British Standard: UV-CHP-UK; Australia/NZ: UV-CHP-AU					UV-CH-HP (All Voltages. Power cord is sold separately.)				
Chamber Material	Polished 304 stainless steel, A249 pressure rated tubing					Polished 316L stainless steel, A249 pressure rated tubing				
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2cm)	2.5 x 14.3" (6.4 x 36.4cm)	2.5 x 21.3" (6.4 x 54.2cm)	2.5 x 35.2" (6.4 x 89.5cm)	2.5 x 40" (6.4 x 101.6cm)	3.5 x 11.7" (8.9 x 29.8cm)	35 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	6.8 x 3.6 x 4" (17.2 x 9.2 x 10.2cm)					8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9cm)				
Electrical	90-265V/50-60Hz (12 VDC/24 VDC where indicated)					90-265V/50-60Hz				
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order by adding the suffix below.					Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.				
European CEE 7/7	Suffix: EU (Example: UV-SPNSFA-1.6M-EU)					Suffix: EU (Example: UV-SPNSFA-2.2M-HP-EU)				
British Standard BS 1363	Suffix: UK (Example: UV-SPNSFA-1.6M-UK)					Suffix: UK (Example: UV-SPNSFA-2.2M-HP-UK)				
Australia/NZ 3112	Suffix: AU (Example: UV-SPNSFA-1.6M-AU)					Suffix: AU (Example: UV-SPNSFA-2.2M-HP-AU)				
Operating Pressure	10-150 psi (7-10.3 bar)					10-150 psi (7-10.3 bar)				
Operating Water Temp.	36-104°F (2-40°C)					36-104°F (2-40°C)				
UV Monitor	YES					YES				
Solenoid Output	Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1					Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1				
Dry Contacts	Equipped but Requires Remote Alarm Module Add-On UV-MOD-RAM					Equipped but Requires Remote Alarm Module Add-On UV-MOD-RAM				
4-20mA Output	Equipped but Requires 4-20mA Module Add-On UV-MOD-420					Equipped but Requires 4-20mA Module Add-On UV-MOD-420				
Lamp Change Reminder	YES – Audible & Visual Full-Color Graphic Display with Countdown					YES – Audible & Visual Full-Color Graphic Display with Countdown				
Lamp Out Indicator	YES – Audible & Visual Full-Color Graphic Display					YES – Audible & Visual Full-Color Graphic Display				
Shipping Weight	7 lbs (3.0 kg)	8 lbs (3.3 kg)	10 lbs (4.2 kg)	15 lbs (6.8 kg)	18lbs (8.0 kg)	9.9 lbs (4.5 kg)	11.9 lbs (5.4 kg)	13.2 lbs (6.0 kg)	15.9 lbs (7.2 kg)	21.4 lbs (9.7 kg)



Systems Tested and Certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class A

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Lamp Life: UV lamps are rated for 9000 hours of continuous use (10,000 hours for HP models).

General Operation and Maintenance: UV lamps are to be replaced on an annual basis (9000 hours for standard, 10,000 hours for HP). Quartz sleeves and UV sensors are to be cleaned every 6-12 months and replaced every 5 years.

This Class A system conforms to NSF/ANSI 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. The system is not intended to convert wastewater or raw sewage to drinking water. The system is intended to be installed on visually clear water.

NSF/ANSI 55 defines wastewater to include human and/or animal body waste, toilet paper, and any other material intended to be deposited in a receptacle designed to receive urine and/or feces (blackwater), and other waste materials deposited in plumbing fixtures (greywater). If this system is used for the treatment of untreated surface waters or ground water under the direct influence of surface water, a device found to be in conformance for cyst reduction under the appropriate NSF/ANSI standard shall be installed upstream of the system. While testing was performed under standard laboratory conditions, actual performance may vary. The systems and installation shall comply with applicable provincial/state and local regulations.

Your Solapur Aurora UV System will provide years of use provided that the system is maintained on a regular basis as outlined in the owner's manual. For the systems to perform as tested, the following water quality parameters must be met.

Hardness	<120 mg/L (7 gpg)
Iron (Fe)	<0.3 mg/L (ppm)
Manganese (Mn)	<0.05 mg/L (ppm)
Tannins	< 0.1 mg/L (ppm)
Turbidity	<1 NTU
Transmittance	>75% UVT

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NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

Aurora HP NSF B Series – Certified to NSF Standard 55, Class B

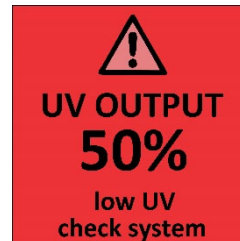
- Tested and certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class B
- Continuous True 254nm UV Monitoring with UV Output Display (as a %) – standard on monitored units only.
- System Diagnostics and Potential Fault Codes
- Color Screen Controller with Protected Lamp Replacement, Includes QR Codes, Full Diagnostics & Warnings
- Expandability Port for Future Upgrades and Options
- Audible and Visual Lamp Change Reminders and Lamp Failure Indicators
- Axial Flow Stainless Steel Reactor Chamber, Designed & Manufactured to ASME Pressure Vessel Standards
- Reliable, Industry Proven, High-Output Coated UV Lamps with Ceramic Bases for Durability and Long Life (9,000 Hours for standard, 10,000 Hours for HP)
- User-Friendly Bayonet Style Lamp Connector for Easy, No-Tools Change-Out
- Constant Current Electronic Controller in a Splash-Proof Case
- Fully Potted Ballast Virtually Eliminates Common Water Damage Issues



Model No. (Standard)	Service Flow	
	gpm	lpm
UV-SPNSFB-2.9 UV-SPNSFB-2.9M <i>monitored</i>	2.9	11.0
UV-SPNSFB-5.2 UV-SPNSFB-5.2M <i>monitored</i>	5.2	19.7
UV-SPNSFB-7.6 UV-SPNSFB-7.6M <i>monitored</i>	7.6	28.8
UV-SPNSFB-13 UV-SPNSFB-13M <i>monitored</i>	13	49.2
UV-SPNSFB-22 UV-SPNSFB-22M <i>monitored</i>	22	83.3

Model No. (HP) High Output	Service Flow	
	gpm	lpm
UV-SPNSFB-5.4-HP UV-SPNSFB-5.4M-HP <i>monitored</i>	5.4	20.4
UV-SPNSFB-7.6-HP UV-SPNSFB-7.6M-HP <i>monitored</i>	7.6	28.8
UV-SPNSFB-13-HP UV-SPNSFB-13M-HP <i>monitored</i>	13	49.2
UV-SPNSFB-22-HP UV-SPNSFB-22M-HP <i>monitored</i>	22	83.3
UV-SPNSFB-28-HP UV-SPNSFB-28M-HP <i>monitored</i>	28	106

AURORA NSF-B SAMPLE SCREENS



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NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

Aurora NSF B Series UV System Specifications

UV System Model →	Aurora NSF B Series Standard					Aurora NSF B HP Series- High Output Lamps				
	UV-SPNSFB-2.9(M)	UV-SPNSFB-5.2(M)	UV-SPNSFB-7.6(M)	UV-SPNSFB-13(M)	UV-SPNSFB-22(M)	UV-SPNSFB-5.4(M)-HP	UV-SPNSFB-7.6(M)-HP	UV-SPNSFB-13(M)-HP	UV-SPNSFB-22(M)-HP	UV-SPNSFB-28(M)-HP
NSF Class B Flow Rate (16mJ/cm ² @70% UVT)	2.9 gpm 11.0 lpm 0.70 m ³ /hr	5.2 gpm 19.7 lpm 1.18 m ³ /hr	7.6 gpm 28.8 lpm 1.73 m ³ /hr	13.0 gpm 49.2 lpm 2.95 m ³ /hr	22.0 gpm 83.3 lpm 5.00 m ³ /hr	5.4 gpm 20.4 lpm 1.23 m ³ /hr	7.6 gpm 28.8 lpm 1.73 m ³ /hr	13.0 gpm 49.2 lpm 2.95 m ³ /hr	22.0 gpm 83.3 lpm 5.00 m ³ /hr	28.0 gpm 106.0 lpm 6.36 m ³ /hr
Flow Restrictor	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Port Size	½" MNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1-½" MNPT
Lamp Watts	8	15	22	39	50	18	34	45	67	101
Power (Watts)	14	20	30	49	62	20 (19 @230v)	38 (36 @230v)	57(48 @230v)	73 (72 @230v)	115 (108 @230v)
Lamp Life	9,000 Hours					10,000 Hours				
Replacement Lamp	UV-SPH-2-L	UV-SPH-3-L	UV-SPH-6-L	UV-SPH-11-L	UV-SPH-15-L	UV-SPH-5-HPL	UV-SPH-10-HPL	UV-SPH-15-HPL	UV-SPH-25-HPL	UV-SPH-40-HPL
Replacement Sleeve	UV-SPH-2SLV	UV-SPH-3SLV	UV-SPH-6SLV	UV-SPH-11SLV	UV-SPH-15SLV	UV-SPH-5SLV	UV-SPH-10SLV	UV-SPH-15SLV	UV-SPH-25SLV	UV-SPH-40SLV
Replacement UV Sensor	UV-S-H1V (Monitored Units Only)					UV-S-H3V (Monitored Units Only)				
Replacement Controller	USA: UV-CHP-US; European: UV-CHP-EU; British Standard: UV-CHP-UK; Australia/NZ: UV-CHP-AU					UV-CH-HP (All Voltages. Power cord is sold separately.)				
Chamber Material	Polished 304 stainless steel, A249 pressure rated tubing					Polished 316L stainless steel, A249 pressure rated tubing				
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2cm)	2.5 x 14.3" (6.4 x 36.4cm)	2.5 x 21.3" (6.4 x 54.2cm)	2.5 x 35.2" (6.4 x 89.5cm)	2.5 x 40" (6.4 x 101.6cm)	3.5 x 11.7" (8.9 x 29.8cm)	3.5 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	6.8 x 3.6 x 4" (17.2 x 9.2 x 10.2cm)					8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9cm)				
Electrical	90-265V/50-60Hz (12 VDC/24 VDC where indicated)					90-265V/50-60Hz				
Plug Type	Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order by adding the suffix below.					Standard models are equipped with American, NEMA 5/15. For alternative plug styles, order using the part numbers below.				
European CEE 7/7	Suffix: EU (Example: UV-SPNSFB-2.9M-EU)					Suffix: EU (Example: UV-SPNSFB-5.4M-HP-EU)				
British Standard BS 1363	Suffix: UK (Example: UV-SPNSFB-2.9M-UK)					Suffix: UK (Example: UV-SPNSFB-5.4M-HP-UK)				
Australia/NZ 3112	Suffix: AU (Example: UV-SPNSFB-2.9M-AU)					Suffix: AU (Example: UV-SPNSFB-5.4M-HP-AU)				
Operating Pressure	10-150 psi (7-10.3 bar)					10-150 psi (7-10.3 bar)				
Operating Water Temp.	36-104°F (2-40°C)					36-104°F (2-40°C)				
UV Monitor	Standard on Models with "M" after the flow. (IE: UV-SPNSFB-2.9M)					Standard on Models with "M" after the flow. (IE: UV-SPNSFB-5.4M-HP)				
Solenoid Output	Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1					Equipped but Requires Solenoid Module Add-on UV-MOD-SOL1				
Dry Contacts	Equipped but Requires Remote Alarm Module Add-On UV-MOD-RAM					Equipped but Requires Remote Alarm Module Add-On UV-MOD-RAM				
4-20mA Output	Equipped but Requires 4-20mA Module Add-On UV-MOD-420					Equipped but Requires 4-20mA Module Add-On UV-MOD-420				
Lamp Change Reminder	YES – Audible & Visual Full-Color Graphic Display with Countdown					YES – Audible & Visual Full-Color Graphic Display with Countdown				
Lamp Out Indicator	YES – Audible & Visual Full-Color Graphic Display					YES – Audible & Visual Full-Color Graphic Display				
Shipping Weight	7 lbs (3.0 kg)	8 lbs (3.3 kg)	10 lbs (4.2 kg)	15 lbs (6.8 kg)	18 lbs (8.0 kg)	9.9 lbs (4.5 kg)	11.9 lbs (5.4 kg)	13.2 lbs (6.0 kg)	15.9 lbs (7.2 kg)	21.4 lbs (9.7 kg)



Systems Tested and Certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class B

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Lamp Life: UV lamps are rated for 9000 hours of continuous use (10,000 hours for HP models).

General Operation and Maintenance: UV lamps are to be replaced on an annual basis (9000 hours for standard, 10,000 hours for HP). Quartz sleeves and UV sensors are to be cleaned every 6-12 months and replaced every 5 years.

This Class B system or component conforms to NSF/ANSI 55 for the supplemental bactericidal treatment of disinfected public drinking water or other drinking water that has been tested and deemed acceptable for human consumption by the state or local health agency having jurisdiction. The system is only designed to reduce normally occurring nonpathogenic, nuisance microorganisms. Class B systems are not intended for treatment of contaminated water. While testing was performed under standard laboratory conditions, actual performance may vary. The systems and installation shall comply with applicable provincial/state and local regulations.

Your Solapur Aurora UV System will provide years of use provided that the system is maintained on a regular basis as outlined in the owner's manual. For the systems to perform as tested, the following water quality parameters must be met.

Hardness	<120 mg/L (7 gpg)
Iron (Fe)	<0.3 mg/L (ppm)
Manganese (Mn)	<0.05 mg/L (ppm)
Tannins	<0.1 mg/L (ppm)
Turbidity	<1 NTU
Transmittance	>75% UVT

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Apollo Series - 35 to 175 gpm Commercial UV Systems

- Modular control panel with LED display for UV output, remaining lamp life, total running hours, audible & visual lamp failure, remote on and solenoid ready
- 316L stainless steel, polished reactors, with integral sensor port to allow for sensor upgradeability in the future (comes standard with visual glow plug)
- Designed & manufactured to ASME pressure vessel standards
- Reliable, industry proven low pressure amalgam (LP-AM) coated UV lamps with ceramic bases for durability, 12,000-hour lamp life
- Uniform lamp output in both hot or cold applications
- Flexible vertical or horizontal installation
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nut with positive stop
- Constant current electronic controller in a splash-proof (IP-54) case with audible and visual lamp failure indicators



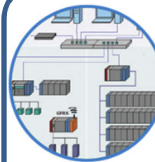
Model No.	Service Flow	
	gpm	lpm
UV-SPA-35 <i>UV-SPA-35M monitored</i>	35	132
UV-SPA-58 <i>UV-SPA-58M monitored</i>	58	220
UV-SPA-85 <i>UV-SPA-85M monitored</i>	85	322
UV-SPA-110 <i>UV-SPA-110M monitored</i>	110	416
UV-SPA-140 <i>UV-SPA-140M monitored</i>	140	530
UV-SPA-175 <i>UV-SPA-175M monitored</i>	175	662

Voltage: Add voltage code to the end of the system model:
 -116: 110v/60Hz with NEMA 5/15 power cord. e.g., UV-SPA-58-116
 -216/5 230v/50-60Hz, power cord sold separately. e.g. UV-SPA-58-216/5



Easy Turn Lamp Change

Lamp changes with an effortless ¼ turn of the connector. No more broken sleeves or metal clips.



Remote Output

Allows for dry contact signal to be sent to a remote location or solenoid.
 (Requires UV-210010 cable).

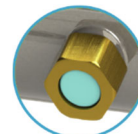


Apollo Series Commercial UV Specifications

UV System Model →	UV-SPA-35 UV-SPA-35M	UV-SPA-58 UV-SPA-58M	UV-SPA-85 UV-SPA-85M	UV-SPH-110 UV-SPA-110M	UV-SPH-140 UV-SPA-140M	UV-SPA-175 UV-SPA-175M
Normal Flow Rate (30mJ/cm² @95% UVT)	35 gpm	58 gpm	85 gpm	110 gpm	140 gpm	175 gpm
	132 lpm	220 lpm	322 lpm	416 lpm	530 lpm	662 lpm
	8 m³/hr	13.2 m³/hr	19.3 m³/hr	25 m³/hr	31.8 m³/hr	39.7 m³/hr
Hot Water Flow Rate (30mJ/cm² @75% UVT)	22 gpm	38 gpm	60 gpm	64 gpm	81 gpm	95 gpm
	83 lpm	144 lpm	227 lpm	242 lpm	306 lpm	360 lpm
	5 m³/hr	8.6 m³/hr	13.6 m³/hr	14.5 m³/hr	18.4 m³/hr	21.6 m³/hr
Low UVT Flow Rate (30mJ/cm² @50% UVT)	14 gpm	23 gpm	35 gpm	36 gpm	45 gpm	51 gpm
	53 lpm	87 lpm	133 lpm	136 lpm	170 lpm	193 lpm
	3.2 m³/hr	5.2 m³/hr	8 m³/hr	8.2 m³/hr	10.2 m³/hr	11.6 m³/hr
TOC Flow Rate (150mJ/cm² @95% UVT)	7 gpm	12 gpm	17 gpm	22 gpm	28 gpm	35 gpm
	26 lpm	45 lpm	64 lpm	83 lpm	106 lpm	132 lpm
	1.6 m³/hr	2.7 m³/hr	3.9 m³/hr	5 m³/hr	6.4 m³/hr	8 m³/hr
Alt Flow - US Public Health (16mJ/cm² @95% UVT)	66 gpm	109 gpm	167 gpm	207 gpm	263 gpm	327 gpm
	250 lpm	413 lpm	632 lpm	784 lpm	996 lpm	1240 lpm
	15 m³/hr	24.8 m³/hr	37.9 m³/hr	47 m³/hr	59.7 m³/hr	74.3 m³/hr
Flow Rate NSF Standard (40mJ/cm² @95% UVT)	27 gpm	44 gpm	67 gpm	84 gpm	106 gpm	131 gpm
	102 lpm	167 lpm	252 lpm	318 lpm	401 lpm	496 lpm
	6.1 m³/hr	10 m³/hr	15.1 m³/hr	19.1 m³/hr	24.1 m³/hr	29.8 m³/hr
Port Size	1-½" MNPT	2" MNPT	2" MNPT	2-½" MNPT	3" MNPT	4" MNPT
Lamp Watts	104	152	207	304	344	414
Power (Watts)	120	170	220	320	360	430
Lamp Life	12,000 hours	12,000 hours	12,000 hours	12,000 hours	12,000 hours	12,000 hours
Replacement Lamp (Standard) 254 nm	UV-SPA-35-L	UV-SPA-58-L	UV-SPTA-85-L	UV-SPA-58-L (Two Required)	UV-SPA-70-L (Two Required)	UV-SPTA-85-L (Two Required)
Hot Water Lamp (254 nm)	UV-SPA-35-HW-L	UV-SPA-58-HW-L	UV-SPTA-85-HW-L	UV-SPA-58-HW-L (Two Required)	UV-SPA-70-HW-L (Two Required)	UV-SPTA-85-HW-L (Two Required)
TOC Lamp (185 nm)	UV-SPA-35-TOC-L	UV-SPA-58-TOC-L	UV-SPTA-85-TOC-L	UV-SPA-58-TOC-L (Two Required)	UV-SPA-70-TOC-L (Two Required)	UV-SPTA-85-TOC-L (Two Required)
Replacement Sleeve	UV-SPA-35SLV	UV-SPA-58SLV	UV-SPTA-85SLV	UV-SPA-58SLV (Two Required)	UV-SPA-70SLV (Two Required)	UV-SPTA-85SLV (Two Required)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated					
Reactor Dimensions	4 × 27.2 × 7" (10×69×18cm)	4 × 35.8 × 7" (10×91×18cm)	4 × 46.9 × 7" (10×119×18cm)	6 × 35.8 × 9.4" (15×91×24cm)	6 × 40.7 × 9.4" (15×103×24cm)	6 × 46.9 × 9.4" (15×119×24cm)
Controller Dimensions	12 × 8.4 × 7" (30 × 21 × 18cm)			13.8 × 10.3 × 7" (35 × 26 × 18cm)		
Electrical	110v/60Hz or 230v/50-60Hz. Add voltage code to the end of the system model when ordering. -116: 110v/60Hz with NEMA 5/15 power cord. e.g., UV-SPA-58-116 -216/5 230v/50-60Hz, power cord sold separately. e.g. UV-SPA-58-216/5					
Power Cord	110v/60Hz supplied with NEMA 5/15 cord. 230v/50-60Hz cord must be ordered separately: IEC, European, CEE 7/7 order UV-260005 IEC, AS/NZS 3112 order UV-260006 IEC, BS 1363 order UV-260008 IEC, 230V, NEMA 6-15 order UV-260009					
Max. Operating Pressure	150psi (10.3 bar)					
Operating Water Temp.	36-148°F (2-60°C)					
UV Monitor	Standard on Models with "M" after the flow. (IE: UV-SPA-35M)					
Remote – On	YES					
Dry Contacts	YES – Solenoid Ready. Requires UV-210010 cable assembly (sold separately).					
4-20 mA Output	OPTIONAL (requires UV Sensor and UV-2100100 cable assembly)					
Lamp Age Counter	YES					
Visual Lamp-Out Indicator	YES					
Audible Lamp-Out Alarm	YES					

EQUIPMENT & OPTIONS

UV Monitoring Port included in all non-monitored systems – visually verify lamp-on status.
Upgradeable: Can later be replaced with a UV sensor to monitor UV output of the lamp.

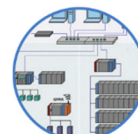


UV Sensor included in all monitored systems (indicated by M at the end of the number). Continuously monitors the UV lamp output to display on the system controller. Part # UV-S-A



Remote Monitoring (Dry Contacts) Output (Capability Only) Included

Allows for the dry contact signal (on/off) provided by the controller to be sent to a remote location. Can be used for remote on, solenoid connection, PLC connection, remote alarm, remote visual, or many other options. Requires UV-210010 cable.



Remote Monitoring Cable – Optional

Connector and 33' (10m) of cable to remotely control the Apollo dry contact signal. Part # UV-210010



MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

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Titan Series – 175 to 625 gpm Industrial UV Systems

- Modular 304 stainless steel control panel with LCD display for remaining lamp life, total running hours, audible & visual lamp failure, remote-on and dry contacts
- 316L stainless steel, polished reactors with flanged endplate
- Designed & manufactured to ASME pressure vessel standards
- User friendly bayonet style lamp connectors (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nuts with positive stop
- Reliable, industry proven low pressure amalgam (LP-AM) coated UV lamps with ceramic bases for durability and a 12,000-hour lamp life
- Constant current electronic ballasts

Model No.	Service Flow	
	gpm	lpm
UV-SPT-175-215/6 UV-SPT-175M-215/6 <i>monitored</i>	175	662
UV-SPT-404-215/6 UV-SPT-404M-215/6 <i>monitored</i>	404	1530
UV-SPT-625-215/6 UV-SPT-625M-215/6 <i>monitored</i>	625	2366

APPLICATIONS INCLUDE:

- **Food & Beverage**
- **Pharmaceutical**
- **Swimming Pools**
- **Water Reuse**
- **Ultrapure**
- **Recreational Water**
- **Aquaculture**
- **Municipal**

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CONTROL FEATURES:

- Individual lamp status indicators (visual & audible)
- Lamp age monitor (visual & audible failure indicators)
- Lamp cycle counter (tracks total on-off lamp cycles)
- Service time monitor (tracks total system running time)
- Chamber temperature monitor (monitors high temperatures and no flow conditions)
- Panel temperature monitor (protects electronic circuits from extreme temperatures)
- Remote on/off feature (allows reactor to be controlled remotely and timed with other system components)
- Automatic reactor shutdown (user configurable)
- Dry contact outputs:
 - Minor alarm (NO/NC)
 - Major alarm (NO/NC)
- Reactor ready (valve control feature) (NO/NC)
- Major & minor alarm output (audible & visual)

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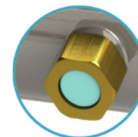


Titan Series Industrial UV Specifications

UV System Model →	UV-SPT-175-215/6 UV-SPT-175M-215/6	UV-SPT-404-215/6 UV-SPT-404M-215/6	UV-SPT-625-215/6 UV-SPT-514M-215/6
Normal Flow Rate (30mJ/cm ² @95% UVT)	175 gpm 662 lpm 39.7 m³/hr	404 gpm 1530 lpm 91.8 m³/hr	625 gpm 2366 lpm 142 m³/hr
Flow* - US Public Health (16mJ/cm ² @95% UVT)	327 gpm 1240 lpm 74.3 m ³ /hr	758 gpm 2870 lpm 172.2 m ³ /hr	1170 gpm 4420 265.7 m ³ /hr
Flow - NSF Standard (40mJ/cm ² @95% UVT)	131 gpm 496 lpm 29.8 m ³ /hr	303 gpm 1150 lpm 68.8 m ³ /hr	467 gpm 1770 lpm 106 m ³ /hr
Port Size	3" Flange	4" Flange	6" Flange
Electrical	220v/50-60Hz, Direct Wire Connection		
Lamp Watts	414	828	1242
Power (Watts)	460	900	1340
Chamber Material	316L Stainless Steel; A249 Pressure Rated Tubing; Polished and Passivated		
Lamp Life	12,000 hours	12,000 hours	12,000 hours
Replacement Lamp (Standard) 254 nm	UV-SPTA-85-L (2 Required)	UV-SPTA-85-L (4 Required)	UV-SPTA-85-L (6 Required)
Replacement Sleeve	UV-SPTA-85SLV (2 Required)	UV-SPTA-85SLV (4 Required)	UV-SPTA-85SLV (6 Required)
Reactor Dimensions	10.5 × 53.7 × 15.7" (27 × 136 × 40cm)	11 × 54.7 × 17.8" (28 × 139 × 45cm)	11 × 54.7 × 18" (28 × 139 × 46cm)
Controller Dimensions	19 × 16.5 × 8.3" (48 × 42 × 21cm)	23 × 16.5 × 8.3" (58 × 42 × 21cm)	27 × 24.5 × 10.3" (69 × 62 × 26cm)
Max Operating Pressure	150 psi (10.3 bar)		
Operating Temp. Range	36-104°F (2-40°C)		
UV Intensity Monitor	Standard on Models with "M" after the flow. (IE: UV-SPT-175M-215/6) Non-monitored systems may be upgraded with addition of UV-S-T.		
UVT Monitor	Optional/Upgradeable		
Dose Calculations	Optional/Upgradeable		
Flow Monitor	Optional/Upgradeable		
Internal Fault History	YES		
Remote - On	YES		
Dry Contact	YES - Solenoid Ready		
4-20 mA Output	YES		
Drain Ports	½"		
Lamp Age Counter	Yes		
Sample Ports	½"		
Lamp Out Indicators	Visual & Audible		

EQUIPMENT & OPTIONS

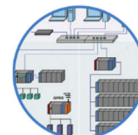
UV Monitoring Port included in all non-monitored systems – visually verify lamp-on status.
Upgradeable: Can later be replaced with a UV sensor to monitor UV output of the lamp.



UV Sensor included in all monitored systems (indicated by M at the end of the number). Continuously monitors the UV lamp output to display on the system controller. Part # UV-S-T



Remote Monitoring (Dry Contacts) Output Allows for the dry contact signal (on/off) provided by the controller to be sent to a remote location. Can be used for remote on, solenoid connection, PLC connection, remote alarm, remote visual, or many other options.



MANUFACTURER'S WARRANTY

Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

CONTACT US TO ORDER

☎ (760) 727-3711

✉ sales@appliedmembranes.com

🌐 www.appliedmembranes.com

*Port sizes are based on flow rates for 30mJ/cm² or higher doses. Flow rates for lower doses may not be achievable. Contact factory for custom port sizing.
NOTE: Electrical certification optional for various markets.