AMI®
APPLIED MEMBRANES INC

SOLAPUR
ULTRAVIOLET DISINFECTION

APPLIED MEMBRANES INC.®

Industry Leader in RO Expertise and Membrane Applications Since 1983™

CERTIFIED ISO 9001:2015 COMPANY

MEMBER Water Quality® ASSOCIATION

INDEPENDENTLY NSF® CERTIFIED

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

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

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

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

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 ***Recommended*** (30mJ/cm² @95% UVT)	2 gpm 7.6 lpm 0.45 m³/hr	3 gpm 11.4 lpm 0.7 m³/hr	6 gpm 22.7 lpm 1.4 m³/hr	11 gpm 41 lpm 2.5 m³/hr	15 gpm 57 lpm 3.4 m³/hr	21 gpm 79 lpm 4.8 m³/hr
Flow Rate ***US Public Health Std.*** (16mJ/cm² @95% UVT)	4 gpm 15.1 lpm 0.9 m³/hr	6 gpm 23 lpm 1.4 m³/hr	11 gpm 41 lpm 2.5 m³/hr	20 gpm 77 lpm 4.6 m³/hr	30 gpm 114 lpm 6.8 m³/hr	39 gpm 150 lpm 8.9 m³/hr
Flow Rate ***NSF Standard*** (40mJ/cm² @95% UVT)	1.6 gpm 6.1 lpm 0.36 m³/hr	2.4 gpm 9.4 lpm 0.5 m³/hr	4.4 gpm 17 lpm 1.0 m³/hr	8.3 gpm 31 lpm 1.9 m³/hr	12 gpm 45.4 lpm 2.7 m³/hr	16 gpm 59 lpm 3.6 m³/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

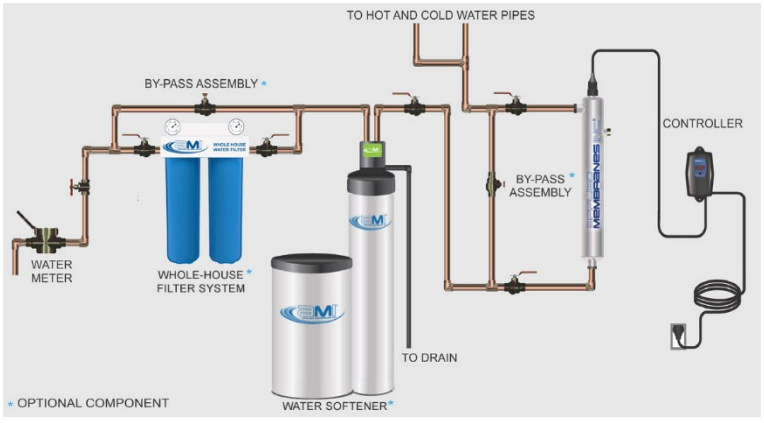
Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

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

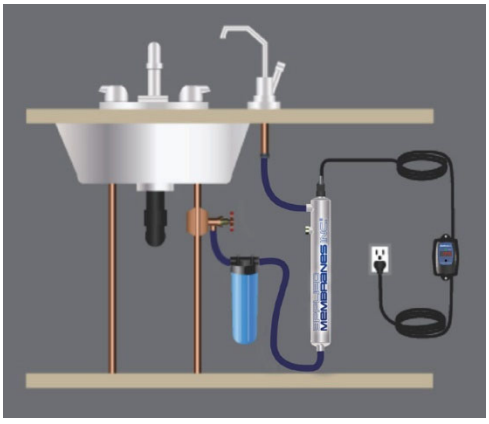
CONTACT US TO ORDER

(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

TYPICAL POINT-OF-ENTRY INSTALLATION



TYPICAL POINT-OF-USE INSTALLATION

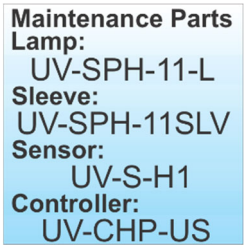


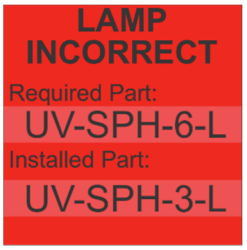
Helios Plus Series - *2 to 21 gpm UV with 4-Color Controller*

- 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*

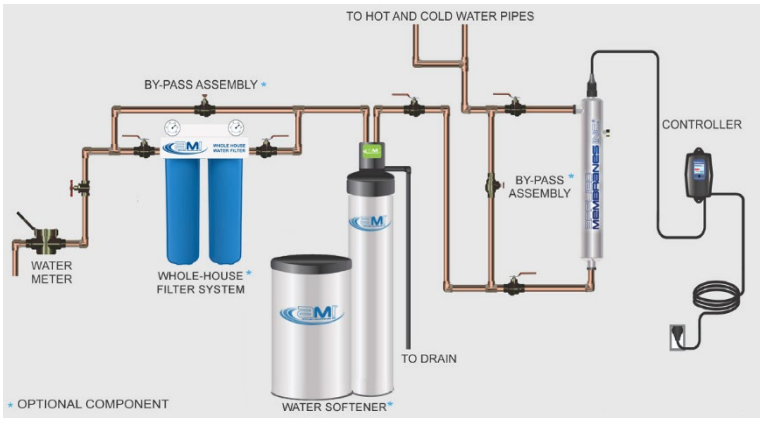
APPLIED MEMBRANES INC®
Industry Leader in RO Expertise and Membrane Applications Since 1983™

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

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 *Recommended* (30mJ/cm² @95% UVT)	2 gpm 7.6 lpm 0.45 m³/hr	3 gpm 11.4 lpm 0.7 m³/hr	6 gpm 22.7 lpm 1.4 m³/hr	11 gpm 41 lpm 2.5 m³/hr	15 gpm 57 lpm 3.4 m³/hr	21 gpm 79 lpm 4.8 m³/hr
Flow Rate *US Public Health Std.* (16mJ/cm² @95% UVT)	4 gpm 15.1 lpm 0.9 m³/hr	6 gpm 23 lpm 1.4 m³/hr	11 gpm 41 lpm 2.5 m³/hr	20 gpm 77 lpm 4.6 m³/hr	30 gpm 114 lpm 6.8 m³/hr	39 gpm 150 lpm 8.9 m³/hr
Flow Rate *NSF Standard* (40mJ/cm² @95% UVT)	1.6 gpm 6.1 lpm 0.36 m³/hr	2.4 gpm 9.4 lpm 0.5 m³/hr	4.4 gpm 17 lpm 1.0 m³/hr	8.3 gpm 31 lpm 1.9 m³/hr	12 gpm 45.4 lpm 2.7 m³/hr	16 gpm 59 lpm 3.6 m³/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	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

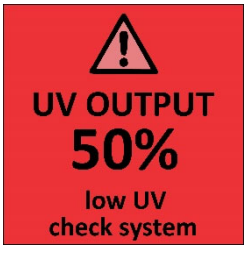
(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

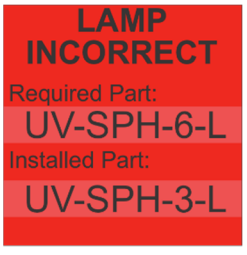
Helios Ultra Series - *2 to 21 gpm UV with UV Monitoring*

- 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 gpm	Service Flow lpm	Inlet/ Outlet
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*

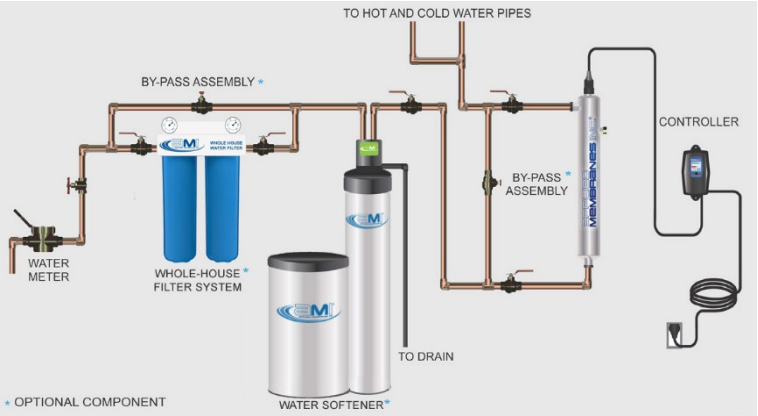
APPLIED MEMBRANES INC®
Industry Leader in RO Expertise and Membrane Applications Since 1983™

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

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 *Recommended* (30mJ/cm² @95% UVT)	2 gpm 7.6 lpm 0.45 m³/hr	3 gpm 11.4 lpm 0.7 m³/hr	6 gpm 22.7 lpm 1.4 m³/hr	11 gpm 41 lpm 2.5 m³/hr	15 gpm 57 lpm 3.4 m³/hr	21 gpm 79 lpm 4.8 m³/hr
Flow Rate *US Public Health Std.* (16mJ/cm² @95% UVT)	4 gpm 15.1 lpm 0.9 m³/hr	6 gpm 23 lpm 1.4 m³/hr	11 gpm 41 lpm 2.5 m³/hr	20 gpm 77 lpm 4.6 m³/hr	30 gpm 114 lpm 6.8 m³/hr	39 gpm 150 lpm 8.9 m³/hr
Flow Rate *NSF Standard* (40mJ/cm² @95% UVT)	1.6 gpm 6.1 lpm 0.36 m³/hr	2.4 gpm 9.4 lpm 0.5 m³/hr	4.4 gpm 17 lpm 1.0 m³/hr	8.3 gpm 31 lpm 1.9 m³/hr	12 gpm 45.4 lpm 2.7 m³/hr	16 gpm 59 lpm 3.6 m³/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)

TYPICAL POINT-OF-ENTRY INSTALLATION



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

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

SOLAPUR
ULTRAVIOLET DISINFECTION

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

SOLAPUR ULTRAVIOLET DISINFECTION

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 ***Recommended*** (30mJ/cm² @95% UVT)	5 gpm 18.9 lpm 1.1 m³/hr	10 gpm 37.9 lpm 2.3 m³/hr	15 gpm 57 lpm 3.4 m³/hr	25 gpm 95 lpm 5.7 m³/hr	40 gpm 151 lpm 9.3 m³/hr
Flow Rate ***US Public Health Std.*** (16mJ/cm² @95% UVT)	8 gpm 30.3 lpm 1.8 m³/hr	19 gpm 71.9 lpm 4.3 m³/hr	27 gpm 102.2 lpm 6.1 m³/hr	47 gpm 178 lpm 10.7 m³/hr	78 gpm 295 lpm 17.7 m³/hr
Flow Rate ***NSF Standard*** (40mJ/cm² @95% UVT)	3 gpm 11.4 lpm 0.7 m³/hr	7 gpm 26.5 lpm 1.6 m³/hr	11 gpm 41 lpm 2.5 m³/hr	19 gpm 72 lpm 4.3 m³/hr	31 gpm 117 lpm 7.0 m³/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

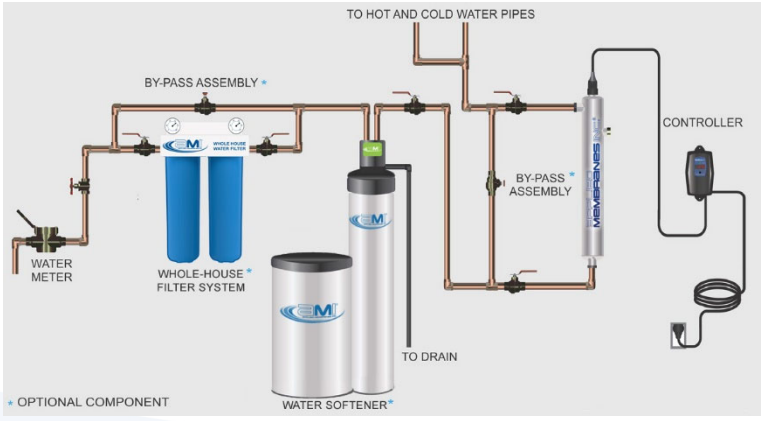
Reactors	10 Year Limited Warranty
Electronics	3 Year Limited Warranty
UV Lamps	1 Year Limited Warranty
Quartz Sleeves	1 Year Limited Warranty

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

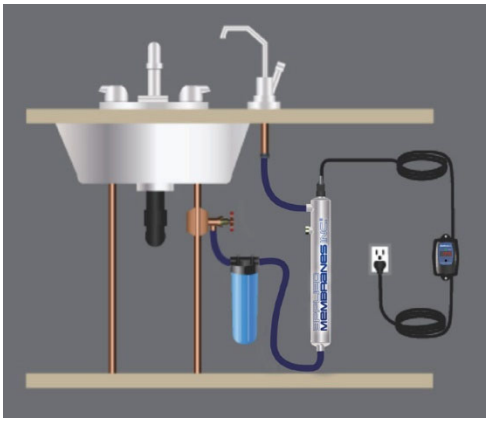
CONTACT US TO ORDER

(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

TYPICAL POINT-OF-ENTRY INSTALLATION



TYPICAL POINT-OF-USE INSTALLATION



SOLAPUR
ULTRAVIOLET DISINFECTION

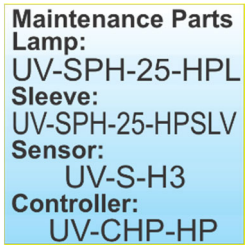
HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

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 gpm	Service Flow lpm	Inlet/ Outlet
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

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

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

APPLIED MEMBRANES INC®

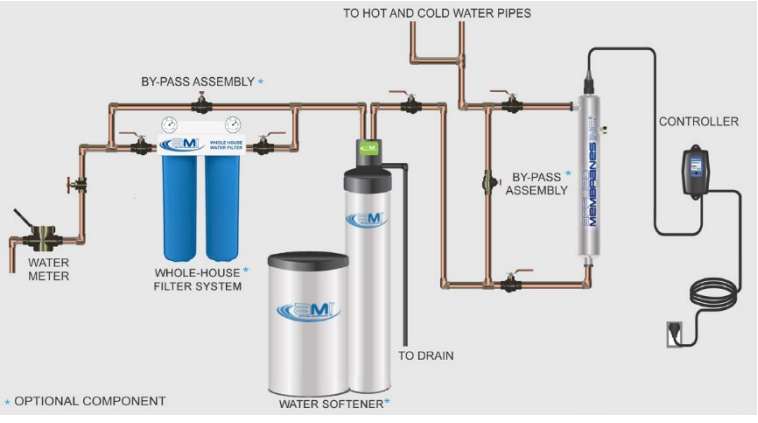
SOLAPUR ULTRAVIOLET DISINFECTION

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/cm² @95% UVT)	5 gpm 18.9 lpm 1.1 m³/hr	10 gpm 37.9 lpm 2.3 m³/hr	15 gpm 57 lpm 3.4 m³/hr	25 gpm 95 lpm 5.7 m³/hr	40 gpm 151 lpm 9.3 m³/hr
Flow Rate ***US Public Health Std.*** (16mJ/cm² @95% UVT)	8 gpm 30.3 lpm 1.8 m³/hr	19 gpm 71.9 lpm 4.3 m³/hr	27 gpm 102.2 lpm 6.1 m³/hr	47 gpm 178 lpm 10.7 m³/hr	78 gpm 295 lpm 17.7 m³/hr
Flow Rate ***NSF Standard*** (40mJ/cm² @95% UVT)	3 gpm 11.4 lpm 0.7 m³/hr	7 gpm 26.5 lpm 1.6 m³/hr	11 gpm 41 lpm 2.5 m³/hr	19 gpm 72 lpm 4.3 m³/hr	31 gpm 117 lpm 7.0 m³/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-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

(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

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

MEMBER Water Quality ASSOCIATION

SOLAPUR ULTRAVIOLET DISINFECTION

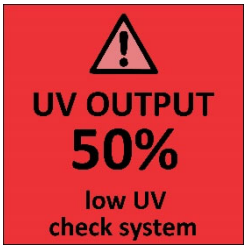
HIGH PERFORMANCE SOLAPUR HELIOS SERIES WITH HIGH OUTPUT ULTRAVIOLET LAMPS

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*

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

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

APPLIED MEMBRANES INC

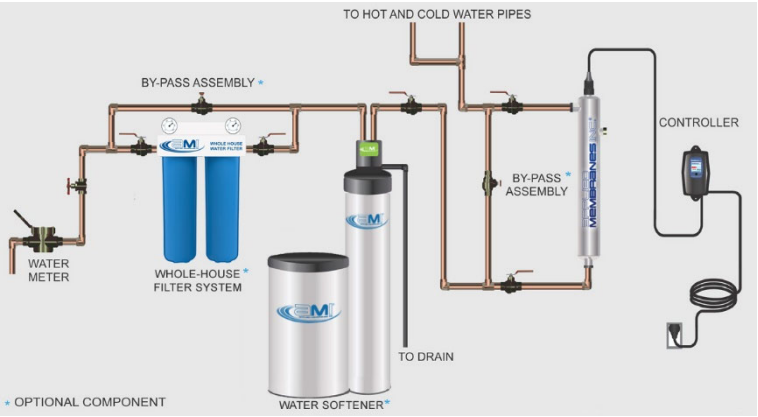
SOLAPUR ULTRAVIOLET DISINFECTION

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 ***Recommended*** (30mJ/cm² @95% UVT)	5 gpm 18.9 lpm 1.1 m³/hr	10 gpm 37.9 lpm 2.3 m³/hr	15 gpm 57 lpm 3.4 m³/hr	25 gpm 95 lpm 5.7 m³/hr	40 gpm 151 lpm 9.3 m³/hr
Flow Rate ***US Public Health Std.*** (16mJ/cm² @95% UVT)	8 gpm 30.3 lpm 1.8 m³/hr	19 gpm 71.9 lpm 4.3 m³/hr	27 gpm 102.2 lpm 6.1 m³/hr	47 gpm 178 lpm 10.7 m³/hr	78 gpm 295 lpm 17.7 m³/hr
Flow Rate ***NSF Standard*** (40mJ/cm² @95% UVT)	3 gpm 11.4 lpm 0.7 m³/hr	7 gpm 26.5 lpm 1.6 m³/hr	11 gpm 41 lpm 2.5 m³/hr	19 gpm 72 lpm 4.3 m³/hr	31 gpm 117 lpm 7.0 m³/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-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)

TYPICAL POINT-OF-ENTRY INSTALLATION



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

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

APPLIED MEMBRANES INC

SOLAPUR
ULTRAVIOLET DISINFECTION

NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

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

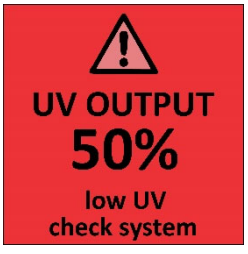
- Tested and Certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class A
- Continuous True 254nm UV Monitoring with UV Output Display (as a %)
- System Diagnostics and Potential Fault Codes
- Color Screen Controller with Protected Lamp Replacement, Includes 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

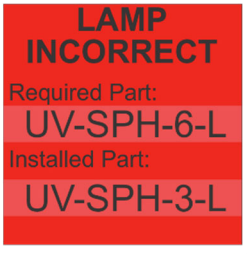
NSF C US — System Tested and Certified by NSF International against CSA B483.1 and NSF/ANSI 55 for Disinfection Performance, Class A

Model No. (Standard)	Service Flow gpm	Service Flow 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	Service Flow 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

AURORA NSF-A SAMPLE SCREENS





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

MEMBER Water Quality ASSOCIATION

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

APPLIED MEMBRANES INC

SOLAPUR
ULTRAVIOLET DISINFECTION

NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

Aurora NSF A Series UV System Specifications

	Aurora NSFA Series Standard					Aurora NSFA HP Series- High Output Lamps				
UV System Model →	**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/cm² @95% UVT)	1.6 gpm 6.1 lpm 0.36 m³/hr	2.2 gpm 8.3 lpm 0.5 m³/hr	3.4 gpm 12.9 lpm 0.77 m³/hr	6.3 gpm 23.8 lpm 1.43 m³/hr	7.9 gpm 29.9 lpm 1.79 m³/hr	2.2 gpm 8.3 lpm 0.5 m³/hr	4.0 gpm 15.1 lpm 0.91 m³/hr	5.4 gpm 20.4 lpm 1.23 m³/hr	7.9 gpm 29.9 lpm 1.79 m³/hr	18.0 gpm 68.1 lpm 4.08 m³/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 × 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 × 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	6.8 × 3.6 × 4" (17.2 × 9.2 × 10.2cm)					8.6 × 4.2 × 3.5" (21.7 × 10.8 × 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)

NSF C US

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

CONTACT US TO ORDER

(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

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 (blackwaste), and other waste materials deposited in plumbing fixtures (greywaste). 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

AMI® APPLIED MEMBRANES INC

SOLAPUR ULTRAVIOLET DISINFECTION

NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

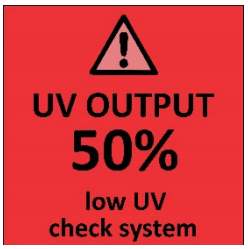
Aurora HP NSF B Series – *Certified to NSF Standard 55, Class B*

- 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** *monitored*	2.9	11.0
UV-SPNSFB-5.2 **UV-SPNSFB-5.2M** *monitored*	5.2	19.7
UV-SPNSFB-7.6 **UV-SPNSFB-7.6M** *monitored*	7.6	28.8
UV-SPNSFB-13 **UV-SPNSFB-13M** *monitored*	13	49.2
UV-SPNSFB-22 **UV-SPNSFB-22M** *monitored*	22	83.3

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

AURORA NSF-B SAMPLE SCREENS



APPLIED MEMBRANES INC.®

Industry Leader in RO Expertise and Membrane Applications Since 1983™

MEMBER Water Quality ASSOCIATION

100% PERFORMANCE TESTED

CERTIFIED ISO 9001:2015 COMPANY

Made In NORTH AMERICA

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

APPLIED MEMBRANES INC

SOLAPUR
ULTRAVIOLET DISINFECTION

NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

Aurora NSF B Series UV System Specifications

	Aurora NSFB Series Standard					Aurora NSFB HP Series- High Output Lamps				
UV System Model →	**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/cm² @70% UVT)	2.9 gpm 11.0 lpm 0.70 m³/hr	5.2 gpm 19.7 lpm 1.18 m³/hr	7.6 gpm 28.8 lpm 1.73 m³/hr	13.0 gpm 49.2 lpm 2.95 m³/hr	22.0 gpm 83.3 lpm 5.00 m³/hr	5.4 gpm 20.4 lpm 1.23 m³/hr	7.6 gpm 28.8 lpm 1.73 m³/hr	13.0 gpm 49.2 lpm 2.95 m³/hr	22.0 gpm 83.3 lpm 5.00 m³/hr	28.0 gpm 106.0 lpm 6.36 m³/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 × 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 × 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	6.8 × 3.6 × 4" (17.2 × 9.2 × 10.2cm)					8.6 × 4.2 × 3.5" (21.7 × 10.8 × 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-SPNSF B-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-2.9**M**)					Standard on Models with "M" after the flow. (IE: UV-SPNSFB-5.4**M**-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)	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)

NSF C US

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

CONTACT US TO ORDER

(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

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

Apollo Series - *35 to 175 gpm Commercial UV Systems*

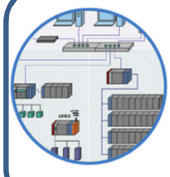
- Modular control panel with LED display for UV output, remaining lamp life, total running hours, audible & visual lamp failure, remote on and solenoid ready
- 316L stainless steel, polished reactors, with integral sensor port to allow for sensor upgradeability in the future (comes standard with visual 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 **UV-SPA-35M** *monitored*	35	132
UV-SPA-58 **UV-SPA-58M** *monitored*	58	220
UV-SPA-85 **UV-SPA-85M** *monitored*	85	322
UV-SPA-110 **UV-SPA-110M** *monitored*	110	416
UV-SPA-140 **UV-SPA-140M** *monitored*	140	530
UV-SPA-175 **UV-SPA-175M** *monitored*	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).

☎ (760) 727-3711 ✉ sales@appliedmembranes.com 🌐 www.appliedmembranes.com Vista, CA, USA

Apollo Series Commercial UV Specifications

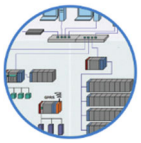
UV System Model →	UV-SPA-35 UV-SPA-35M	UV-SPA-58 UV-SPA-58M	UV-SPA-85 UV-SPA-85M	UV-SPH-110 UV-SPA-110M	UV-SPH-140 UV-SPA-140M	UV-SPA-175 UV-SPA-175M
Normal Flow Rate (30mJ/cm² @95% UVT)	**35 gpm** **132 lpm** **8 m³/hr**	**58 gpm** **220 lpm** **13.2 m³/hr**	**85 gpm** **322 lpm** **19.3 m³/hr**	**110 gpm** **416 lpm** **25 m³/hr**	**140 gpm** **530 lpm** **31.8 m³/hr**	**175 gpm** **662 lpm** **39.7 m³/hr**
Hot Water Flow Rate (30mJ/cm² @75% UVT)	22 gpm 83 lpm 5 m³/hr	38 gpm 144 lpm 8.6 m³/hr	60 gpm 227 lpm 13.6 m³/hr	64 gpm 242 lpm 14.5 m³/hr	81 gpm 306 lpm 18.4 m³/hr	95 gpm 360 lpm 21.6 m³/hr
Low UVT Flow Rate (30mJ/cm² @50% UVT)	14 gpm 53 lpm 3.2 m³/hr	23 gpm 87 lpm 5.2 m³/hr	35 gpm 133 lpm 8 m³/hr	36 gpm 136 lpm 8.2 m³/hr	45 gpm 170 lpm 10.2 m³/hr	51 gpm 193 lpm 11.6 m³/hr
TOC Flow Rate (150mJ/cm² @95% UVT)	7 gpm 26 lpm 1.6 m³/hr	12 gpm 45 lpm 2.7 m³/hr	17 gpm 64 lpm 3.9 m³/hr	22 gpm 83 lpm 5 m³/hr	28 gpm 106 lpm 6.4 m³/hr	35 gpm 132 lpm 8 m³/hr
Alt Flow - *US Public Health* (16mJ/cm² @95% UVT)	66 gpm 250 lpm 15 m³/hr	109 gpm 413 lpm 24.8 m³/hr	167 gpm 632 lpm 37.9 m³/hr	207 gpm 784 lpm 47 m³/hr	263 gpm 996 lpm 59.7 m³/hr	327 gpm 1240 lpm 74.3 m³/hr
Flow Rate *NSF Standard* (40mJ/cm² @95% UVT)	27 gpm 102 lpm 6.1 m³/hr	44 gpm 167 lpm 10 m³/hr	67 gpm 252 lpm 15.1 m³/hr	84 gpm 318 lpm 19.1 m³/hr	106 gpm 401 lpm 24.1 m³/hr	131 gpm 496 lpm 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-35**M**)					
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

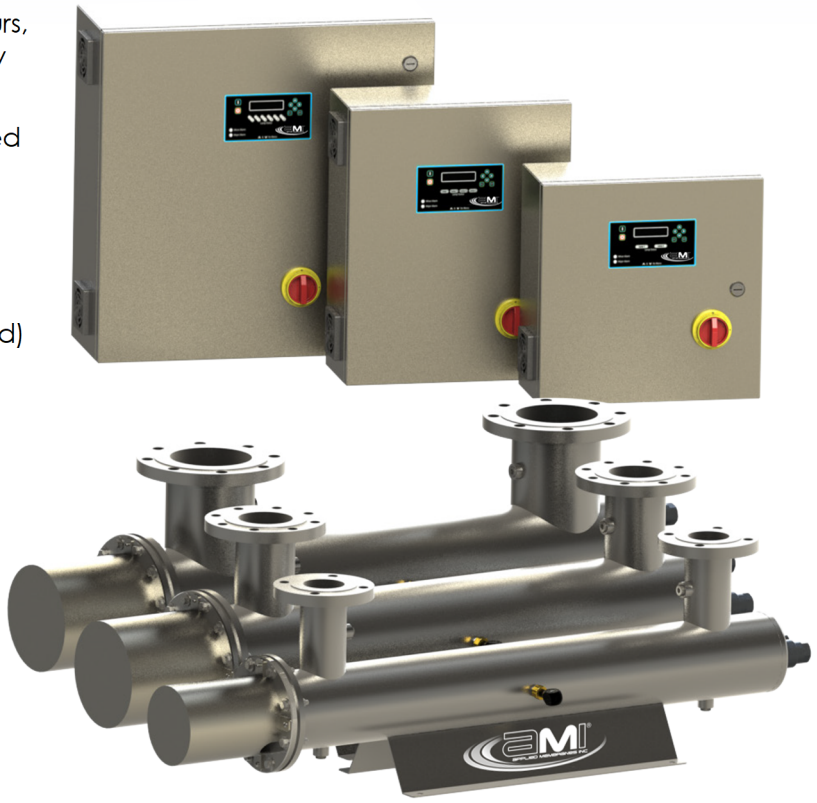
See Applied Membranes, Inc. complete warranty document including conditions and exclusions.

CONTACT US TO ORDER

(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

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** *monitored*	175	662
UV-SPT-404-215/6 **UV-SPT-404M-215/6** *monitored*	404	1530
UV-SPT-625-215/6 **UV-SPT-625M-215/6** *monitored*	625	2366

APPLICATIONS INCLUDE:

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

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)

CONTACT US TO ORDER

(760) 727-3711
sales@appliedmembranes.com
www.appliedmembranes.com

Titan Series Industrial UV Specifications

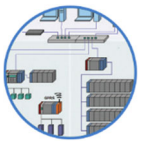
UV System Model →	UV-SPT-175-215/6 UV-SPT-175M-215/6	UV-SPT-404-215/6 UV-SPT-404M-215/6	UV-SPT-625-215/6 UV-SPT-514M-215/6
Normal Flow Rate (30mJ/cm² @95% UVT)	**175 gpm** **662 lpm** **39.7 m³/hr**	**404 gpm** **1530 lpm** **91.8 m³/hr**	**625 gpm** **2366 lpm** **142 m³/hr**
Flow*- *US Public Health* (16mJ/cm² @95% UVT)	327 gpm 1240 lpm 74.3 m³/hr	758 gpm 2870 lpm 172.2 m³/hr	1170 gpm 4420 265.7 m³/hr
Flow - *NSF Standard* (40mJ/cm² @95% UVT)	131 gpm 496 lpm 29.8 m³/hr	303 gpm 1150 lpm 68.8 m³/hr	467 gpm 1770 lpm 106 m³/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-175**M**-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.

ULTRAVIOLET WATER TREATMENT

VIQUA Sterilight TAP Series Point of Use UV Systems

VIQUA TAP Series Ultraviolet Disinfection Systems are specifically designed for point-of-use applications where microbiological control is required. Ultraviolet water treatment controls bacteria, virus and protozoan cyst (specifically giardia lamblia and cryptosporidium). VIQUA TAP series are installed at a single tap (or faucet) within a home, cottage or business. TAP systems are also suitable for fountains or low-flow applications (1-4 gpm).

FEATURES & SPECIFICATIONS

- 99.99% destruction of bacteria, virus and protozoan cysts (Giardia Lamblia and Cryptosporidium) at rated flow.
- TAP Systems feature an "on" indicator light.
- TAP Plus System features visual lamp change count down timer display and audible lamp failure and lamp replacement reminder alarms.
- 304 Stainless Steel Reactor Chamber
- Sterilume-EX hard glass, coated lamps with 9000 hour lamp life
- 214 fused quartz sleeves with fire polished end
- 5' lamp cord
- Maximum Operating Pressure: 125 psi (8.62 bar)
- Ambient Temperature: 36-104°F (2-40°C)

TAP SERIES UV SYSTEMS

Model No.*	Flow Rate**				Connection	Power Consumption	Dimensions, Inches		Shipping Weight Lbs.
	@ 16 mJ/cm²		@ 40 mJ/cm²				Length	Cell Dia.	
	GPM	L/Min	GPM	L/Min					
VT1	2.0	8	0.7	3	½" MNPT/ ⅜" FNPT	13W	12.5	2.5	4.0
VT4	6.5	24	2.5	9	½" MNPT	20W	17.0	2.5	6.5
TAP Plus System – with count down timer display and audible lamp failure & replacement alarms.									
S2Q-PA	5.0	11	2	8	½" MNPT	22W	17.0	2.5	7.0

Models listed above are North America (NEMA P-15) Voltage. Alternative voltages can be ordered by adding the voltage code to the end of the part number.* */2*** *= EU CEE (CEE 7/7)* ***/2A*** *= AUS/NZ (AS 3112)* ***/2B*** *= UK (BS 1363). Example: VT1/2*

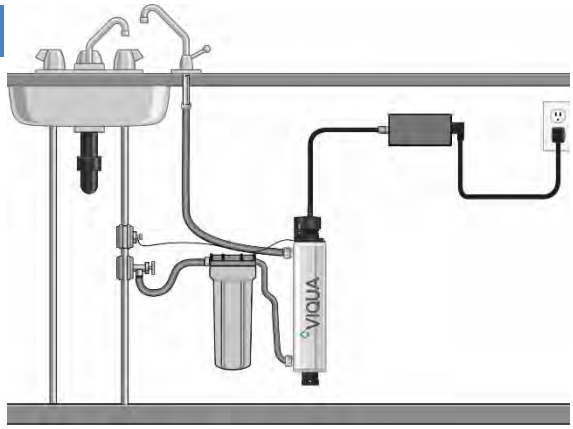
***Flow Rates listed are based on 95% UVT water and are dose dependent. 40 mJ/cm² = NSF/EPA Std. 16 mJ/cm² = US Public Health Std.*

REPLACEMENT PARTS

For System	UV Lamp	Quartz Sleeve	Controller Kit
VT1	S212RL	QS-212	BA-VT *
VT4	S330RL	QS-330	BA-VT*
S2Q-PA	S330RL	QS-330	BA-ICE-S*

**North America voltage. Use Voltage Codes above for alternative voltages.*

Part #	For System	Description
OR-212	All	Lamp O-Ring (410867)
RN-001	All	Retaining Nut
4109958-R	All	2.5" Mounting Brackets
270276-R	All	Lamp Connector Base
SP008	All	Lamp Connector Spring



Typical TAP System Installation

APPLIED MEMBRANES INC.® (760) 727-3711 www.appliedmembranes.com sales@appliedmembranes.com

ULTRAVIOLET WATER TREATMENT

VIQUA Sterilight Home Series Point of Entry UV

VIQUA HOME Series Ultraviolet Disinfection Systems are specifically designed for point-of-entry water treatment in homes or light commercial applications where microbiological control is required.

FEATURES & SPECIFICATIONS

- 99.99% destruction of bacteria, virus & protozoan cysts (Giardia lamblia & Cryptosporidium) at rated flow
- 304 stainless steel reactor chamber
- Visual lamp change count down timer with audible lamp replacement reminder
- Audible lamp failure indicator alarm
- Visual "Power On" LED
- Home PLUS System also features UV Sensor to monitor the UV intensity in the system
- Maximum Operating Pressure: 125 psi (8.62 bar)
- Ambient temperature: 36-104°F (2-40°C)

Model No.*	Flow Rate**				Power Consumption	Inlet/Outlet Connection (Inches)	Chamber Dimensions	Shipping Weight
	@ 16 mJ/cm²		@ 40 mJ/cm²					
	GPM	L/Min	GPM	L/Min				
VH200	16.0	60	7.0	26	35W	¾"-1" Combo NPT	17 ¾" x 3 ½"	12 lbs
VH410	34.0	130	14.0	54	60W	¾"-1" Combo NPT	23 ½" x 3 ½"	17 lbs
Home Plus System – with UV intensity monitor with continuous feedback of UV disinfection performance.								
VH410M	34.0	130	14.0	54	60W	¾"-1" Combo NPT	23 ½" x 3 ½"	17 lbs

Models listed above are North America (NEMA P-15) Voltage. Alternative voltages can be ordered by adding the voltage code to the end of the part number.* */2*** *= EU CEE (CEE 7/7)* ***/2A*** *= AUS/NZ (AS 3112)* ***/2B*** *= UK (BS 1363). Example: S5Q-PA/2*

***Flow Rates listed are based on 95% UVT water and are dose dependent. 40 mJ/cm² = NSF/EPA Std. 16 mJ/cm² = US Public Health Std.*

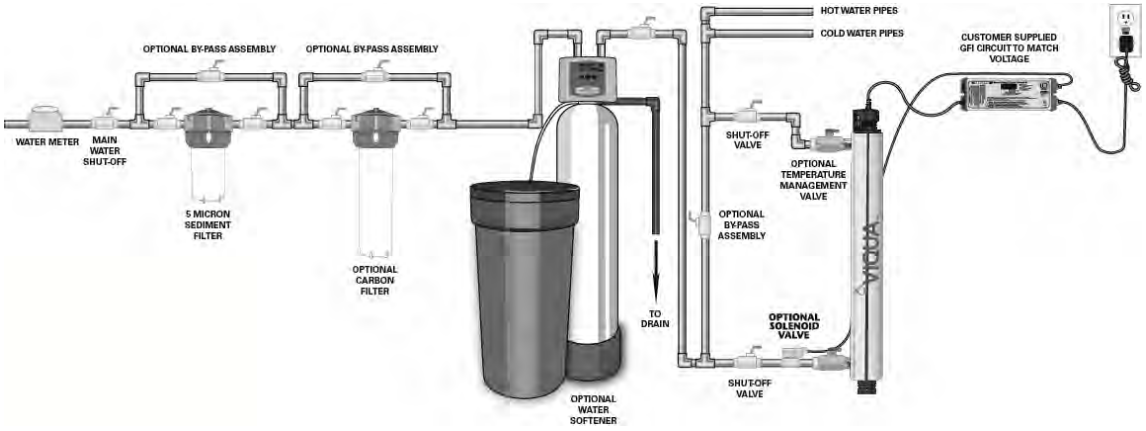
Optional: VH200, VH410(M) are available with temperature management: Order valve part # 440179 (sold separately.)

REPLACEMENT PARTS

For System	UV Lamp	Quartz Sleeve	Controller*
S5Q-PA (retired)	S463RL	QS-463	BA-ICE-S
S8Q-PA (retired)	S810RL	QS-810	BA-ICE-S
VH200	S200RL-HO	QS-001	BA-ICE-CL
VH410	S410RL-HO	QSO-410	BA-ICE-CL
VH410M	S410RL-HO	QSO-410	BA-ICE-CM

**North America voltage. Use Voltage Codes above for alternative voltages.*

Part #	For System	Description
OR-212	All	Lamp O-Ring (410867)
RN-001	All	Retaining Nut
4109958-R	SQ	2.5" Mounting Bracket
410076	VH	3.5" Mounting Bracket
270276-R	SQ	Lamp Connector Base
SP008	SQ	Lamp Connector Spring
254NM-C1	VH410M	UV Sensor for Monitored



APPLIED MEMBRANES INC.®
(760) 727-3711 www.appliedmembranes.com sales@appliedmembranes.com

ULTRAVIOLET WATER TREATMENT

VIQUA Professional & Professional Plus UV Systems

AMI offers VIQUA Professional Series light commercial product line in flow rates ranging from 10 to 340 GPM for use in a wide range of applications. VIQUA Professional Plus series include a UV sensor to monitor the UV intensity, for increased assurance of water sterilization at all times, and NSF 55 rating on select models.

APPLICATIONS FOR VIQUA PROFESSIONAL SERIES UV INCLUDE:

- Schools/Daycares
- Elder Care Facilities
- Healthcare Facilities
- Cottages
- Camps
- Offices
- Public Buildings
- Restaurants
- Hotels & Resorts
- Dairy
- Livestock

PROFESSIONASL SERIES VIQUA STERILIGHT ULTRAVIOLET SYSTEMS

FEATURES & SPECIFICATIONS:

- 99.99% destruction of bacteria, virus & protozoan cysts (Giardia lamblia & Cryptosporidium) at rated flow
- Visual lamp change count down timer & audible replacement reminder
- Audible lamp failure indicator alarm
- Visual "Power On" LED
- Maximum Operating Pressure: 125 psi (8.62 bar)
- Ambient temperature: 36-104°F (2-40°C)

Model No.*	Flow Rate*				Power Consumption	Inlet/Outlet Connection	Reactor Chamber Material	Dimensions		Shipping Weight
	@ 16 mJ/cm²		@ 40 mJ/cm²					Chamber	Controller (L×H×D)	
	GPM	L/Min	GPM	L/Min						
VP600	40	150	22	83	70W	1" MNPT	304SS	30⅔"×3½"	9⅓"×3¼"×2½"	19
VP950	60	230	35	130	96W	1 ½" MNPT	304SS	45"×3½"	9⅓"×3¼"×2½"	29
SHF-140	268	1014	107	406	320W	3" Flange	316SS	34"×6"×14"	17½"×19½"×18⅕"	68
SHF-180	340	1285	137	519	400W	3" Flange	316SS	42½"×6"×14"	17½"×19½"×18⅕"	78

Models listed above are North America (NEMA P-15) Voltage. Alternative voltages can be ordered by adding the voltage code to the end of the part number.* */2*** *= EU CEE (CEE 7/7)* ***/2A*** *= AUS/NZ (AS 3112)* ***/2B*** *= UK (BS 1363). Example: VP600/2*

***Flow Rates listed are based on 95% UVT water and are dose dependent. 40 mJ/cm² = NSF/EPA Std. 16 mJ/cm² = US Public Health Std.*

Optional: VP600 & VP950 are available with temperature management: Order valve part # 440179 (sold separately.)

PROFESSIONAL PLUS SERIES VIQUA STERILIGHT MONITORED ULTRAVIOLET SYSTEMS

FEATURES & SPECIFICATIONS:

- 99.99% destruction of bacteria, virus & protozoan cysts (Giardia lamblia & Cryptosporidium) at rated flow
- UV Sensor for continual monitoring & continuous feedback of UV disinfection performance for added peace of mind
- Sensor reading output (4-20mA) available with cable: 260134 *(sold separately)*
- Visual lamp change count down timer & audible replacement reminder
- Audible lamp failure indicator alarm
- Visual "Power On" LED
- Maximum Operating Pressure: 125 psi (8.62 bar)
- Ambient temperature: 36-104°F (2-40°C)

Model No.*	Flow Rate*				Power Consumption	Inlet/Outlet Connection	Reactor Chamber Material	Dimensions		Shipping Weight
	@ 16 mJ/cm²		@ 40 mJ/cm²					Chamber	Controller (L×H×D)	
	GPM	L/Min	GPM	L/Min						
VP600M	40	150	22	83	70W	1" MNPT	304SS	30⅔"×3½"	9⅓"×3¼"×2½"	19
VP950M	60	230	35	130	96W	1 ½" MNPT	304SS	45"×3½"	9⅓"×3¼"×2½"	29

Models listed above are North America (NEMA P-15) Voltage. Alternative voltages can be ordered by adding the voltage code to the end of the part number.* */2*** *= EU CEE (CEE 7/7)* ***/2A*** *= AUS/NZ (AS 3112)* ***/2B*** *= UK (BS 1363). Example: VP600M/2*

***Flow Rates listed are based on 95% UVT water and are dose dependent. 40 mJ/cm² = NSF/EPA Std. 16 mJ/cm² = US Public Health Std.*

Optional: VP600M & VP950M are available with temperature management: Order valve part # 440179 (sold separately.)

APPLIED MEMBRANES INC.® (760) 727-3711 www.appliedmembranes.com sales@appliedmembranes.com

ULTRAVIOLET WATER TREATMENT

VIQUA Professional & Professional Plus UV Systems

NSF RATED PROFESSIONAL PLUS SERIES VIQUA UV MAX MONITORED ULTRAVIOLET SYSTEMS

FEATURES & SPECIFICATIONS:

- 99.99% destruction of bacteria, virus & protozoan cysts (Giardia lamblia & Cryptosporidium) at rated flow
- NSF 55 Class A Certified for Disinfection Performance
- Flow meter & UV sensor for real-time UV dose measurement & reporting
- Sensor reading output (4-20mA) available with cable: 260134 *(sold separately)*
- Visual lamp change count down timer & audible replacement reminder
- Audible lamp failure indicator alarm
- Visual "Power On" LED
- Dynamic flow restrictor to ensure UV dose of 40 mJ/cm²
- LightWise™ technology to lower lamp power during no flow periods to extend lamp life, reduce sleeve fouling, and lower energy consumption.
- Cool Touch Fan
- Inlet solenoid valve
- Operating pressure: 15 -100 psi (1-6.89 bar)
- Ambient air temperature: 32-104°F (0-40°C)
- Influent water temperature: 34-113°F (1-45°C)
- Installation Orientation: Vertical Only

Part Number*	Model	Flow Rate**		Power Consumption	Inlet/Outlet Connection	Reactor Chamber Material	Dimensions		Shipping Weight
		GPM	L/Min				Chamber	Controller (L×H×D)	
650647	**PRO10**	10	38	120W	1¼" MNPT x 1" FNPT	316L SS	22"×4"	13"×6½"×4½"	25 lbs
650653	**PRO20**	20	76	160W	1¼" MNPT x 1" FNPT	316L SS	31"×4"	13"×6½"×4½"	28 lbs
650659	**PRO30**	30	113	230W	1¼" MNPT x 1" FNPT	316L SS	44"×4"	13"×6½"×4½"	31 lbs

**Part numbers listed above are North America (NEMA) Voltage. EU CEE (CEE 7-7) voltage is also available: contact us for details.*
***Flow Rates listed are based on 70% UVT water and 40 mJ/cm² (NSF/EPA Standard).*

REPLACEMENT PARTS FOR PROFESSIONAL, PROFESSIONAL PLUS, AND NSF RATED SYSTEMS

REPLACEMENT LAMPS, SLEEVES, & CONTROLLERS

For System	UV Lamp	Quartz Sleeve	Controller*
VP600	S600RL-HO	QSO-600	BA-ICE-C
VP950	S950RL-HO	QSO-950	BA-ICE-C
SHF-140	S740RL-4C	QS-012	BA-ICE-HF
SHF-180	S950RL-4C	QS-180	BA-ICE-HF
VP600M	S600RL-HO	QSO-600	BA-ICE-CM
VP950M	S950RL-HO	QSO-950	BA-ICE-CM
650647 (PRO10)	602854	602974	650709-003
650653 (PRO20)	602855	602975	650709-006
650659 (PRO30)	602856	602976	650709-009

**Controller part numbers listed above are North America (NEMA) Voltage. Contact us for additional voltage options.*

ADDITIONAL REPLACEMENT PARTS

Part #	For System	Description
254NM-C1	VP Plus	UV Sensor
OR-212	VP/SHF	Lamp O-Ring (410867)
RN-001	VP/SHF	Retaining Nut
410076	VP	Mounting Bracket/Clamp
602916 & 602896	PRO	Top Bolt & Wire Form
650630	PRO	Cool Touch Fan
002233	PRO	Lamp O-Ring
603053	PRO	Bottom Bolt *(Includes Screw)*
602988	PRO	Sleeve Removal Tool
410982R-10	PRO10	Flow Meter Sensor
410982R-20	PRO20	Flow Meter Sensor
410982R-30	PRO30	Flow Meter Sensor
650580	PRO	UV Sensor

OPTIONAL ADD-ON PARTS

Part #	For System	Description
440179	VP Systems	Temperature Management Valve
260134	Monitored	Sensor Reading Output Cable

APPLIED MEMBRANES INC.® (760) 727-3711 www.appliedmembranes.com sales@appliedmembranes.com

ULTRAVIOLET WATER TREATMENT

VIQUA VENDING Series - UV for Vending Machines

The VIQUA Sterilight Vending UV systems have been specifically designed for requirements found in OEM application of vending machines and dispensing equipment. The unique design incorporating a separate reactor vessel and ballast lends itself to installation inside the equipment. This space saving design when coupled with the electronic ballast offer reduced heat build-up and application flexibility.

FEATURES & SPECIFICATIONS

- 99.99% destruction of bacteria, virus & protozoan cysts (Giardia lamblia & Cryptosporidium) at rated flow
- Compact Space-Saving design optimal for installation inside of vending machines or dispensing equipment.
- 304 stainless steel reactor chamber
- Audible lamp failure indicator alarm
- Visual "Power On" LED
- Maximum Operating Pressure: 125 psi (8.62 bar)
- Ambient temperature: 36-104°F (2-40°C)
- Mounting: Vertical or Horizontal

Model No.*	Flow Rate**				Power Consumption	Inlet/Outlet Connection (Inches)	Chamber Dimensions	Shipping Weight
	@ 16 mJ/cm²		@ 40 mJ/cm²					
	GPM	L/Min	GPM	L/Min				
S2Q-PV	5.0	11	2	8	22W	½" MNPT	18½" × 2½"	7 lbs
S5Q-PV	11.0	42	4.5	17	30W	¾" MNPT	22" × 2½"	8 lbs

Models listed above are North America (NEMA P-15) Voltage. Alternative voltages can be ordered by adding the voltage code to the end of the part number. **/2 = EU CEE (CEE 7/7) **/2A** = AUS/NZ (AS 3112) **/2B** = UK (BS 1363). Example: S5Q-PA/2*

***Flow Rates listed are based on 95% UVT water and are dose dependent. 40 mJ/cm² = NSF/EPA Std. 16 mJ/cm² = US Public Health Std.*

REPLACEMENT PARTS

For System	UV Lamp	Quartz Sleeve	Controller*
S2Q-PV	S330RL	QS-330	BA-ICE-V
S5Q-PV	S463RL	QS-463	BA-ICE-V

Part #	Description
410867-R	Lamp O-Ring
RN-001	Retaining Nut
4109958-R	2.5" Mounting Bracket
270276	Lamp Connector Base
SP008	Lamp Connector Spring

**North America voltage. Use Voltage Codes above for alternative voltages.*

ULTRAVIOLET WATER TREATMENT

Technical Information & Installation Diagrams

MICROORGANISMS DESTRUCTION CHART

Use the below chart to determine the required UV dose (in mJ/cm²) required to destroy specific microorganisms in water.

Name	Dose
Bacteria	
Agrobacterium tumefaciens	8.5
Bacillus anthracis	8.7
Bacillus megatherium (vegetative)	2.5
Bacillus megatherium (spores)	2.5
Bacillus subtilis (vegetative)	11
Bacillus subtilis (spores)	58
Clostridium tetani	22
Corynebacterium diphtheria	6.5
Dysentery bacilli (diarrhea)	4.2
Escherichia coli (diarrhea)	6.6
Legionella bozemanii	3.5
Legionella dumoffii	5.5
Legionella gormanii	4.9
Legionella micdadei	3.1
Legionella longbeachae	2.9
Legionella pneumophila (legionnaires disease)	3.8
Leptospira interrogans (infectious jaundice)	6
Mycobacterium tuberculosis	10
Neisseria catarrahalis	8.5
Proteus vulgaris	6.6
Pseudomonas aeruginosa (laboratory)	3.9
Pseudomonas aeruginosa (environmental)	10.5
Rhodospirillum rubrum	6.2
Salmonella (food poisoning)	10
Salmonella enteritidis	7.6

Name	Dose
Bacteria	
Salmonella paratyphi (enteric fever)	6.1
Salmonella typhimurium	15.2
Salmonella typhosa (typhoid fever)	7
Saracen lutea	26.4
Serratia marcescens	6.2
Shigella dysentariae (dysentary)	4.2
Shigella flexneri (dysentary)	3.4
Shigella sonnei	7
Staphylococcus epidermidis	5.8
Staphylococcus aureus	7
Streptococcus faccalis	10
Streptococcus heaolyeous	5.5
Streptococcus lactis	8.8
Viridans streptococci	3.8
Vibro comma (cholera)	6.5
Mold Spores	
Aspergillus flavus (yellowish green)	99
Aspergillus glaucus (bluish green)	88
Aspergillus nigar (yellowish green)	330
Mucor ramosissimus (white-grey)	35.2
Penicillium digitatum (olive)	88
Penicillium expansum (olive)	22
Penicillium roqueforti (green)	26.4
Rhizopus nigricans (cheese mold)	220

Name	Dose
Algae	
Chlorella vulgaris	22
Protozoa	
Nematode eggs	92
Paramecium	200
Giardia lamblia (3-log)	6-10
Cryptosporidium (3-log)	<10
Viruses	
Influenza	6.6
Poliovirus (poliomyelitis)	7
Rotavirus	24
Tobacco mosaic virus	440
Bacteriophage (E. Coli)	6.6
Hepatitis	8
Yeast	
Baker's yeast	8.8
Brewer's yeast	6.6
Common yeast cake	13.2
Saccharomyces ellipsoideus	13.2
Saccharomyces sp	17.6

**UV dose shown in mJ/cm²*

TYPICAL INSTALLATIONS