



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



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



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 6.1 lpm 0.36 m ³ /hr	2.2 gpm 8.3 lpm 0.5 m ³ /hr	3.4 gpm 12.9 lpm 0.77 m ³ /hr	6.3 gpm 23.8 lpm 1.43 m ³ /hr	7.9 gpm 29.9 lpm 1.79 m ³ /hr	2.2 gpm 8.3 lpm 0.5 m ³ /hr	4.0 gpm 15.1 lpm 0.91 m ³ /hr	5.4 gpm 20.4 lpm 1.23 m ³ /hr	7.9 gpm 29.9 lpm 1.79 m ³ /hr	18.0 gpm 68.1 lpm 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)	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-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

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





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 <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

31 Days
Lamp Life Remaining

CAUTION
7 Days Until Lamp Change required
press button for lamp change info.

DANGER
lamp expired 1 days ago
press button for lamp change info.

UV OUTPUT 50%
low UV check system

LAMP INCORRECT
Required Part: UV-SPH-6-L
Installed Part: UV-SPH-3-L



NSF VALIDATED ULTRAVIOLET DISINFECTION SYSTEMS

Aurora NSF B Series UV System Specifications

UV System Model →	Aurora NSFB Series Standard					Aurora NSFB 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/cm² @70% UVT)	2.9 gpm	5.2 gpm	7.6 gpm	13.0 gpm	22.0 gpm	5.4 gpm	7.6 gpm	13.0 gpm	22.0 gpm	28.0 gpm
	11.0 lpm	19.7 lpm	28.8 lpm	49.2 lpm	83.3 lpm	20.4 lpm	28.8 lpm	49.2 lpm	83.3 lpm	106.0 lpm
	0.70 m³/hr	1.18 m³/hr	1.73 m³/hr	2.95 m³/hr	5.00 m³/hr	1.23 m³/hr	1.73 m³/hr	2.95 m³/hr	5.00 m³/hr	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 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)	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 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

