

# UVA-418HO, UVA-630HO & UVA-946HO

## Commercial High Output Ultraviolet Sterilization Systems



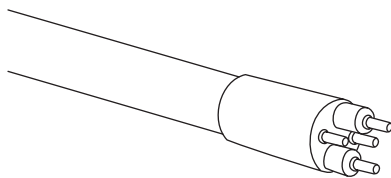
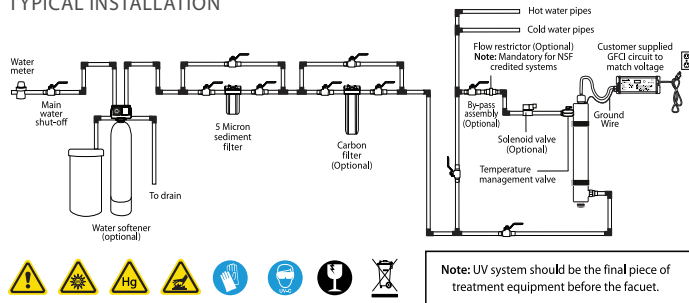
**Polaris Scientific Ultraviolet systems** provide a sleek, compact design and economical ultraviolet water treatment for low flow and medium flow applications such as: light commercial reverse osmosis systems, water vending machines, food industry, laboratory, medical facility water, pharmaceutical, cosmetic processes, final electronic component rinsing and recirculation loops to name a few.

**Polaris Scientific Ultraviolet systems** produce little change in water temperature even after prolonged periods of no water flow, making them ideal for many application requirements.

**Polaris Scientific Ultraviolet systems** efficient easy Installation design connector cup allows for a fast secure connection from the ballast to the lamp. No special tools are needed for the installation and it makes maintenance fast and easy. Both Lamp and Ballast will provide all the benefits of the new Patented design.



### UV DISINFECTION SYSTEM TYPICAL INSTALLATION



**United States Patent: D751506,  
Taiwan Patent: M 503904,  
China Patent: ZL 2015 2 0160464.9,  
Mexico Patent: 49882**

### POLARIS SCIENTIFIC UV™ Water Disinfection Systems Features

- High output germicidal lamps inactivate chlorine-resistant parasites such as Cryptosporidium, Giardia, harmful bacteria like E.Coli, and viruses not visible to the naked eye.
- Specially designed, patented HO lamps provide consistent and reliable ultraviolet output over the entire life of the lamp (9000 hours) to ensure continuous purification.
- Durable stainless steel chamber to prolong life and eliminate ultraviolet light degradation.
- Controller display visually displays days of use and will alarm if lamp failure occurs.
- Simple to maintain and service allowing for easy lamp replacement.
- UV system controller features a sealed case to prevent damage from accidental water intrusion and is CSA and CE compliant.



Polaris Scientific UV and the Polaris Scientific UV logo design are registered Trademarks in the United States and certain other countries.

The Polaris Scientific UV Germicidal UV Lamp Pin Design is patented under United States Patent Number: D751506, Taiwan Patent Number: M 503904, China Patent Number: ZL 2015 2 0160464.9, Mexico Patent Number: 49882, and is protected by U.S. Patent and International Trademark laws.

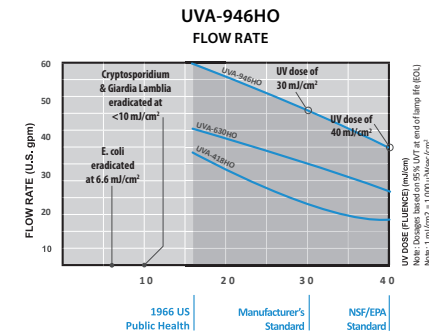
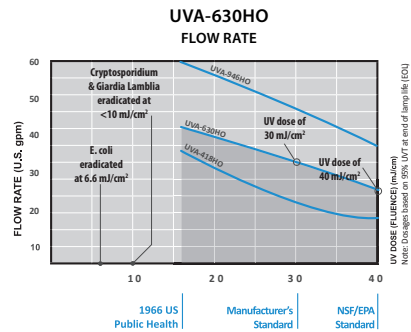
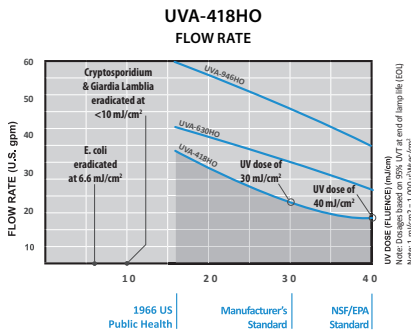
**Polaris Scientific High Output UV systems offer a range in flow rates from just 14 GPM for a small home or up to 46 GPM for a larger home, small business and commercial applications.**

# UVA-HO SERIES

Commercial High Output  
UV Sterilization Systems  
DATA SHEET



		UVA-418HO	UVA-630HO	UVA-946HO
FLOW RATE	Flow Rate @ 95% UVT U.S. Public Health (16 MJ/CM <sup>2</sup> )	34 gpm (130 lpm)	40 gpm (150 lpm)	60 gpm (230 lpm)
	Flow Rate @ 95% UVT POLARIS STANDARD (30 MJ/CM <sup>2</sup> )	18 gpm (70 lpm)	30 gpm (113 lpm)	46 gpm (175 lpm)
	Flow Rate @ 95% UVT NSF/EPA (40 MJ/CM <sup>2</sup> )	14 gpm (54 lpm)	22 gpm (83 lpm)	35 gpm (130 lpm)
PRODUCT SPECS	Chamber Material of Construction	Stainless Steel 304	Stainless Steel 304	Stainless Steel 304
	Chamber Dimensions	23.23" x 3.5" (59*8.89 cm)	27.87" x 3.5" (70.78*8.89 cm)	36.81" x 3.5" (93.49*8.89 cm)
	HOB-4890 / Ballast Dimensions	8" x 2.9" x 2.04" (20.4*7.4*5.2 cm)	8" x 2.9" x 2.04" (20.4*7.4*5.2 cm)	8" x 2.9" x 2.04" (20.4*7.4*5.2 cm)
	Inlet/Outlet Port Size	3/4" FNPT / 1" MNPT	3/4" FNPT / 1" MNPT	1.5" MNPT
	Shipping Weight	13.2 lbs (6 kgs)	15.4 lbs (7 kgs)	17.6 lbs (8 kgs)
ELECTRICAL OUTPUT	Voltage at 50/60Hz	110V / 220V	110V / 220V	110V / 220V
	Maximum Current	1.03 A @ 110V / 0.47A @240V	1.03 A @ 110V / 0.47A @240V	1.03 A @ 110V / 0.47A @240V
	Power Consumption	60 W	78 W	110 W
	Lamp Watts	48 W	58 W	90 W
	Wavelength	254 nm	254 nm	254 nm
OPERATIONAL SPECS	Rated Life	365 days (9,000 hrs)	365 days (9,000 hrs)	365 days (9,000 hrs)
	Maximum Operating Pressure	125 PSI	125 PSI	125 PSI
	Minimum Operating Pressure	15 PSI	15 PSI	15 PSI
	Working Temperature	36° - 104°F (2°-48° C)	36° - 104°F (2°-48° C)	36° - 104°F (2°-48° C)
FEATURES	High Output Lamp	Polaris UV Scientific™ - Patented	Polaris UV Scientific™ - Patented	Polaris UV Scientific™ - Patented
	Number of Lamps	1	1	1
	Counter / Timer	✓	✓	✓
	Visual Warning - "Power-On" LED	✓	✓	✓
	Audible Lamp Failure Alarm	✓	✓	✓
	Lamp Replacement Alarm	✓	✓	✓
REPLACEMENT PARTS	Germicidal UV Lamp	GLHO48PP	GLHO58PP	GLHO90PP
	Electronic Ballast Controller	HOB-4890	HOB-4890	HOB-4890
	Quartz Sleeve	QS48HO	QS58HO	QS90HO
	Aluminum Nuts	UV-NUT-1 / UV-NUT-2	UV-NUT-1 / UV-NUT-2	UV-NUT-1 / UV-NUT-2
	Plastic Plug for Nuts	UV-PLUG	UV-PLUG	UV-PLUG
	Stainless Steel Spring	UV-32 SPRING	UV-32 SPRING	UV-39 SPRING
	Seal for Sleeve and Nut	UV-SEAL	UV-SEAL	UV-SEAL
	Washer for Sleeve and Nut	UV-WASHER	UV-WASHER	UV-WASHER
Aluminum Chamber Clip	CLP-35UV	CLP-35UV	CLP-35UV	



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**Product Ratings**

**Warranty Information**

- Limited 5-year warranty on stainless steel housing
- Limited 1-year warranty on electronics