



POLARIS™

SCIENTIFIC | UV

The **POLARIS**™ Advantage SCIENTIFIC | UV

SAFE

- No need to handle toxic or corrosive chemicals or by-products
- Microbiologically free water without the use of potentially dangerous chemicals
- UV imparts no change in taste, odor, pH or conductivity
- No trihalomethanes (THM's) formation

SIMPLE

- Fast and simple installation with three connections (two water and one electrical).
- Maintenance involves annual lamp replacement (provided water quality parameters are met) with no need to turn off water flow.
- Automatic, unattended and user friendly operation.

EFFICIENT

- Compact units with 304 or 316 (upon request) stainless steel reactor chamber, polished for laboratory and medical use, require minimum space.
- Microorganisms are inactivated within seconds; eliminates the need for long retention times or retention tanks.
- Very low power consumption; less than 40-watt bulb to effectively treat from 1 to 100 gallons per minute.
- High output low pressure mercury vapor lamps with high isolation pin.
- Little change in water temperature even after prolonged periods of no water flow.
- Open end high quality quartz sleeve and stainless steel gland units.

ECONOMICAL

- No moving parts to wear out or break.
- Lower capital investment when compared to chlorine or ozone systems.



Water Quality

Water quality plays a major role in the transmission of germicidal ultraviolet rays. It is recommended that the water does not exceed the following maximum concentration levels.

Maximum Concentration Levels

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

Effectively treating water with higher concentration levels than listed above can be accomplished, but may require added measures to improve water quality to treatable levels.

UV Dose

The units generate a UV dosage of at least 30,000 microwatt-seconds per square centimeter ($\mu\text{W-s/cm}^2$), even at the end-of-lamp life (EOL), which is more than sufficient to destroy most waterborne microorganisms, such as bacteria, yeasts, algae, etc.

Polaris Scientific UV™ Sterilization Systems utilize a natural quartz sleeve to protect the lamp and allow the maximum amount of UV rays to penetrate and disinfect the water.

Polaris Scientific UV™ Sterilization Systems germicidal lamps are specially designed UV radiation lamps which produce a rated wave length of 254nm.

Polaris Scientific UV™ Sterilization Systems are your best choice in UV sterilization. With its durable construction, high quality quartz sleeve and performance lamps, *you can't go wrong.*

FEATURES

- ✓ Audible ballast with LED lamp out indicator.
- ✓ High output low pressure mercury vapor lamps with high isolation pin design.
- ✓ Open end quartz sleeve and stainless steel gland units.
- ✓ Operating temperature and sealing efficiency.
- ✓ Limited 5-year warranty on stainless steel housing.
- ✓ Limited 1-year warranty on electronics.

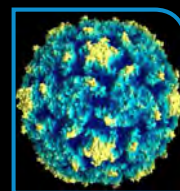
*Eliminating microorganisms in your water**



Bacillus



Cyanobacteria



Polio



Cryptosporidium



E. Coli



Shigella

* These microorganisms may/may not exist in your household water. It is important that you have your water tested to identify microorganisms and/or contaminants, if any.

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Polaris Scientific Ultraviolet Systems have a sleek, compact design and provide cost effective ultraviolet water sterilization for low to medium flow applications. Polaris Scientific UV's are perfect for residential and light commercial reverse osmosis systems, water vending machines, food industry, laboratory, 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.



Ultraviolet Sterilization *Simplified*

POLARIS SCIENTIFIC | UV

Residential Ultraviolet Sterilization Systems

POLARIS SCIENTIFIC UVA-1C

PARTS & ACCESSORIES

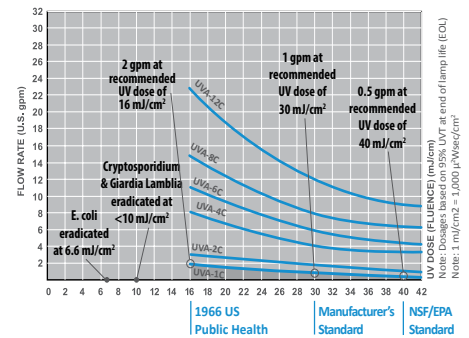
Electronic Ballast	Quartz Sleeve	Lamp
BEB-1024	QS10	GL10PP

Additional Accessories Specific to Your UV System

UV-NUT-1	UV-SEAL	UV-WASHER
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UVA-1C



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
1	9,000	10W	110V/220V	LED	BUZZER	1	1/4" MNPT	STAINLESS 304	10.47"	2"	125 PSI	35°F-104°F	254 nm	30 mJ/cm ²

POLARIS SCIENTIFIC UVA-2C

PARTS & ACCESSORIES

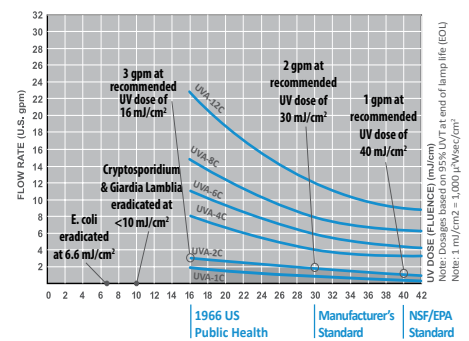
Electronic Ballast	Quartz Sleeve	Lamp
BEB-1024	QS14	GL14PP

Additional Accessories Specific to Your UV System

UV-NUT-1	UV-SEAL	UV-WASHER
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UVA-2C



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
2	9,000	14W	110V/220V	LED	BUZZER	1	1/4" MNPT	STAINLESS 304	13.74"	2.5"	125 PSI	35°F-104°F	254 nm	30 mJ/cm ²

UVA-1C / UVA-2C

POLARIS SCIENTIFIC | UV

Residential Ultraviolet Sterilization Systems

POLARIS SCIENTIFIC UVA-4C

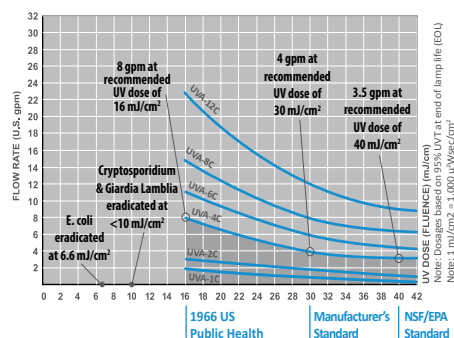
PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
BEB-1024	QS17	GL17PP

Additional Accessories Specific to Your UV System		
UV-NUT-1	UV-SEAL	UV-WASHER



UVA-4C



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wave-length	Microjoules
4	9,000	17W	110V/220V	LED	BUZZER	1	1/2" MNPT	STAINLESS 304	15.50"	2.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm ²

POLARIS SCIENTIFIC UVA-6C

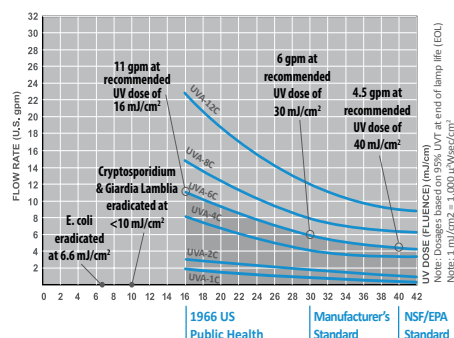
PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
BEB-2439	QS24	GL24PP

Additional Accessories Specific to Your UV System			
UV-NUT-1 / UV-NUT-2	UV-SEAL	UV-WASHER	UV-PLUG



UVA-6C



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
6	9,000	24W	110V/220V	LED	INDICATOR W/ ALARM	1	1/2" MNPT	STAINLESS 304	23.23"	2.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm ²

UVA-4C / UVA-6C

POLARIS SCIENTIFIC | UV

Residential Ultraviolet Sterilization Systems

POLARIS SCIENTIFIC UVA-8C

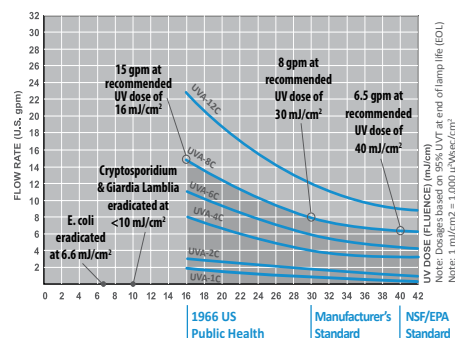
PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
BEB-2439	QS32	GL32PP

Additional Accessories Specific to Your UV System		
UV-NUT-1 / UV-NUT-2	UV-32SPRING	UV-SEAL
UV-WASHER	UV-PLUG	



UVA-8C



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
8	9,000	32W	110V/220V	LED	INDICATOR W/ALARM	1	3/4" MNPT	STAINLESS 304	27.87"	2.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm²

POLARIS SCIENTIFIC UVA-12C

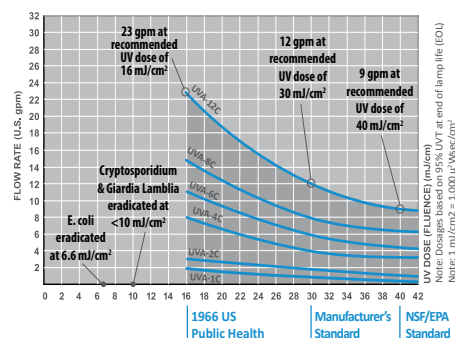
PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
BEB-2439	QS39	GL39PP

Additional Accessories Specific to Your UV System		
UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	



UVA-12C



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
12	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	1	3/4" MNPT	STAINLESS 304	36.81"	2.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm²

UVA-8C / UVA-12C

POLARIS SCIENTIFIC | UV

Commercial Ultraviolet Sterilization Systems

POLARIS SCIENTIFIC UVA-24B

PARTS & ACCESSORIES

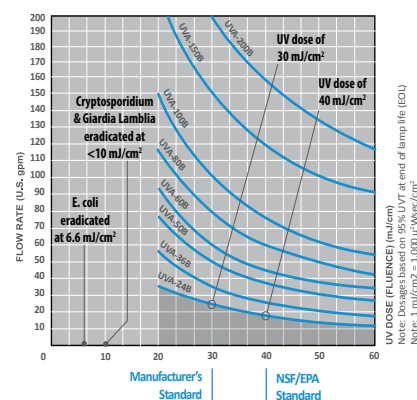
Electronic Ballast	Quartz Sleeve	Lamp
ZEB-2439	QS39	GL39PP

Additional Accessories Specific to Your UV System

UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER



UVA-24B



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
24	9,000	39W	110V/220V	LED	INDICATOR W/ALARM	2	1" MNPT	STAINLESS 304	✓	36.93"	3.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm²

POLARIS SCIENTIFIC UVA-36B

PARTS & ACCESSORIES

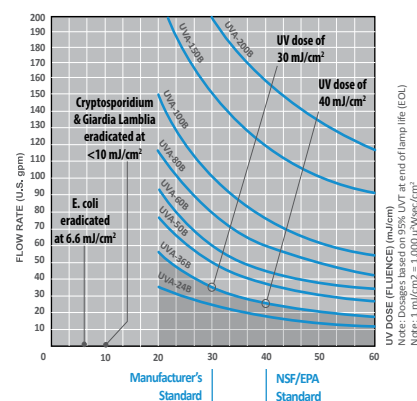
Electronic Ballast	Quartz Sleeve	Lamp
ZEB-2439	QS39	GL39PP

Additional Accessories Specific to Your UV System

UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER



UVA-36B



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
36	9,000	39W	110V/220V	LED	INDICATOR W/ALARM	3	1.5"	STAINLESS 304	✓	36.93"	5.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm²

NOTE: Flanges available upon request.

UVA-24B / UVA-36B

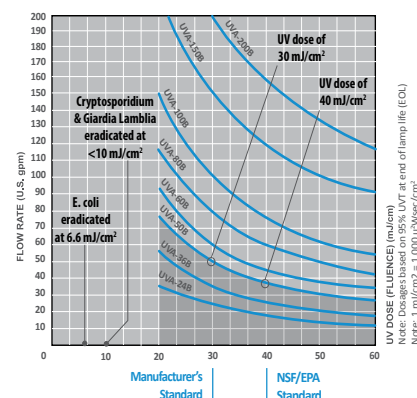
POLARIS SCIENTIFIC UVA-50B
PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
ZEB-2439	QS39	GL39PP

Additional Accessories Specific to Your UV System		
UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER



UVA-50B



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
50	9,000	39W	110V/220V	LED	INDICATOR W/ALARM	4	1.5"	STAINLESS 304	✓	36.93"	5.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm²

NOTE: Flanges available upon request.

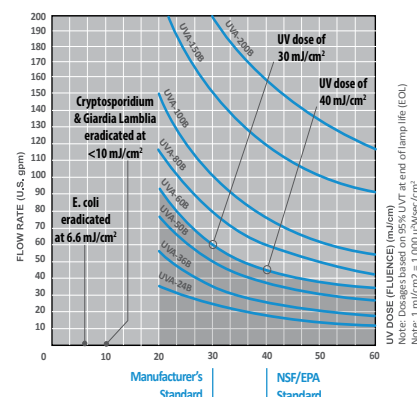
POLARIS SCIENTIFIC UVA-60B
PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
ZEB-2439	QS39	GL39PP

Additional Accessories Specific to Your UV System		
UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER



UVA-60B



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
60	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	5	2" or 2.5" FLANGE	STAINLESS 304	✓	36.93"	5.5"	125 PSI	35°F- 104°F	254 nm	30 mJ/cm²

UVA-50B / UVA-60B

POLARIS SCIENTIFIC UVA-80B
PARTS & ACCESSORIES

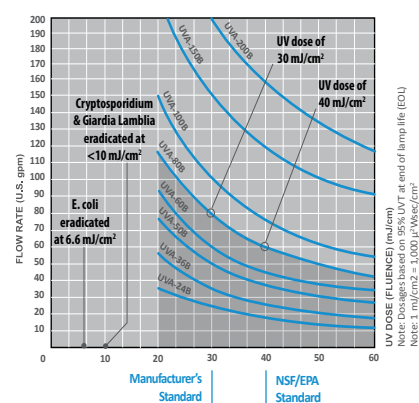
Electronic Ballast	Quartz Sleeve	Lamp
ZEB-2439	QS39	GL39PP

Additional Accessories Specific to Your UV System

UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER



UVA-80B



GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
80	9,000	39W	110V/220V	LED	INDICATOR W/ALARM	6	2" or 2.5" FLANGE	STAINLESS 304	✓	36.93"	6.26"	125 PSI	35° F - 104° F	254 nm	30 mJ/cm ²

POLARIS SCIENTIFIC UVA-100B
PARTS & ACCESSORIES

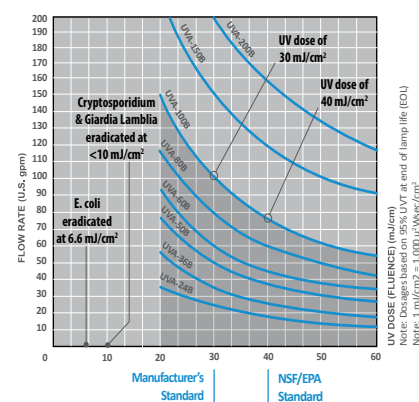
Electronic Ballast	Quartz Sleeve	Lamp
ZEB-2439	QS39	GL39PP

Additional Accessories Specific to Your UV System

UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER



UVA-100B

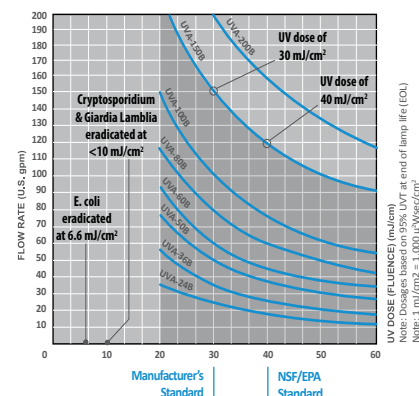


GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
100	9,000	39W	110V/220V	LED	INDICATOR W/ALARM	8	2" or 2.5" FLANGE	STAINLESS 304	✓	36.93"	8.62"	125 PSI	35° F - 104° F	254 nm	30 mJ/cm ²

UVA-80B / UVA-100B


**POLARIS
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Commercial Ultraviolet Sterilization Systems
POLARIS SCIENTIFIC UVA-150B


UVA-150B


PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
ZEB-55155	QS39	GL87PP

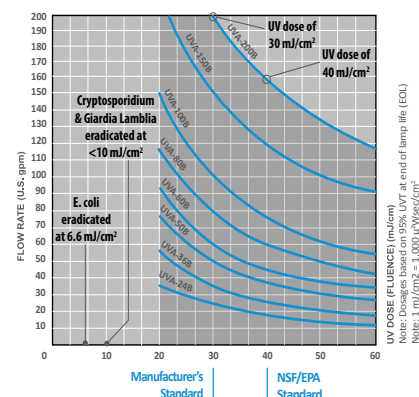
Additional Accessories Specific to Your UV System

UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER

GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
150	9,000	87W	110V/220V	LED	INDICATOR W/ALARM	6	3" FLANGE	STAINLESS 304	✓	36.93"	8.62"	125 PSI	35°F - 104°F	254 nm	30 mJ/cm ²

POLARIS SCIENTIFIC UVA-200B


UVA-200B


PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
ZEB-55155	QS39	GL87PP

Additional Accessories Specific to Your UV System

UV-NUT-1 / UV-NUT-2	UV-39SPRING	UV-SEAL
UV-WASHER	UV-PLUG	UV-TIMER

GPM	Rated Life (hours)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Timer	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
200	9,000	87W	110V/220V	LED	INDICATOR W/ALARM	8	4" FLANGE	STAINLESS 304	✓	36.93"	8.62"	125 PSI	35°F - 104°F	254 nm	30 mJ/cm ²

UVA-150B / UVA-200B

POLARIS SCIENTIFIC UVA-418HO


UVA-418HO

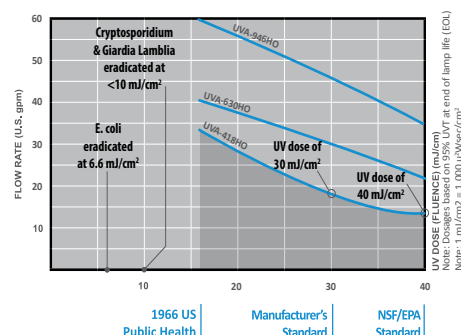

PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
HOB-4890	QS48HO	GLHO48PP

Additional Accessories Specific to Your UV System

UV-NUT-1/ UV-NUT-2	UV-SEAL	UV-32 SPRING	UV-WASHER	UV-PLUG	CLP-35UV
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GPM	Rated Life (Days)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wave-length	Microjoules
18	365	48W	110V/220V	LED	INDICATOR W/ALARM	1	3/4" FNPT 1" MNPT	STAINLESS 304	23.23"	3.5"	125 PSI	36°F- 104°F	254 nm	30 mJ/cm ²


POLARIS SCIENTIFIC UVA-630HO


UVA-630HO

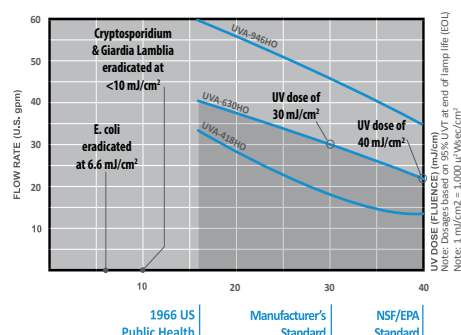

PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
HOB-4890	QS58HO	GLHO58PP

Additional Accessories Specific to Your UV System

UV-NUT-1/ UV-NUT-2	UV-SEAL	UV-32 SPRING	UV-WASHER	UV-PLUG	CLP-35UV
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GPM	Rated Life (Days)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
30	365	58W	110V/220V	LED	INDICATOR W/ALARM	1	3/4" FNPT 1" MNPT	STAINLESS 304	27.87"	3.5"	125 PSI	36°F- 104°F	254 nm	30 mJ/cm ²


POLARIS SCIENTIFIC UVA-946HO


UVA-946HO

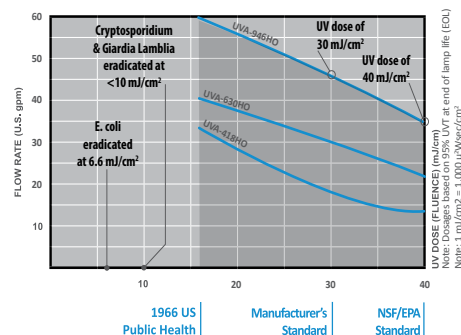

PARTS & ACCESSORIES

Electronic Ballast	Quartz Sleeve	Lamp
HOB-4890	QS90HO	GLHO90PP

Additional Accessories Specific to Your UV System

UV-NUT-1/ UV-NUT-2	UV-SEAL	UV-39 SPRING	UV-WASHER	UV-PLUG	CLP-35UV
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GPM	Rated Life (Days)	Lamp Watts	Voltage @ 50/60HZ	Visual Warning	Audible Warning	Number of Lamps	Port Size Inlet/Outlet	Water Chamber	Length	Width	Maximum Pressure	Working Temp.	Wavelength	Microjoules
46	365	90W	110V/220V	LED	INDICATOR W/ALARM	1	1.5" MNPT	STAINLESS 304	36.81"	3.5"	125 PSI	36°F- 104°F	254 nm	30 mJ/cm ²


UVA-418HO / UVA-630HO / UVA-946HO



UV-NUT-1
Aluminum Long Nut
for Wire Connection
for Models UVA-1C – UVA-200B



UV-NUT-2
Aluminum Short Nut
with End Plug
for Models UVA-6C – UVA-200B



UV-PLUG
Plastic Plug for Nuts
for Models
UVA-6C – UVA-200B



UV-SEAL
Seal for Sleeve and Nut
for Models
UVA-1C – UVA-200B



UV-WASHER
Washer for Sleeve and Nut
for Models
UVA-1C – UVA-200B



CLP-35UV
Aluminum chamber
clip kit 3.5"
for Models UVA-418/630/946HO



BEB-1024
Ballast for
10W-17W 110V/220V
for Models UVA-1C – UVA-4C



BEB-2439
Ballast for
24W-39W 110V/220V
for Models UVA-6C – UVA-12C



ZEB-2439
Ballast no cup expose wires
for 24W-39W 110V/220V
for Models UVA-24B – UVA-100B



ZEB-55155
Ballast for
87W 110V/220V
for Models UVA-150B – UVA-200B



HOB-4890
Ballast for
48W-90W 110V/220V
for Models UVA-418/630/946HO



UV-32SPRING
Stainless Steel Spring
for Model
UVA-8C



UV-39SPRING
Stainless Steel Spring
for Models
UVA-12C – UVA-200B



UV-TIMER
Counter/Timer
for Models UVA-24B – UVA-200B



QS10
Quartz Sleeve, 245mm
for 10W UV Lamp
for Model UVA-1C

QS14
Quartz Sleeve, 331mm
for 14W UV Lamp
for Model UVA-2C

QS24
Quartz Sleeve, 535mm
for 24W UV Lamp
for Model UVA-6C

QS32
Quartz Sleeve, 665mm
for 32W UV Lamp
for Model UVA-8C

QS39
Quartz Sleeve, 890mm
for 39W UV Lamp
for Models UVA-12C – UVA-200B

QS48HO
Quartz Sleeve, 535mm
for 48W UV Lamp
for Model UVA-418HO

QS58HO
Quartz Sleeve, 665mm
for 58W UV Lamp
for Model UVA-630HO

QS90HO
Quartz Sleeve, 890mm
for 90W UV Lamp
for Model UVA-946HO



GL10PP
10W, 212mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Models UVA-1C

GL32PP
32W, 645mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Model UVA-8C

GLHO48PP
48W, 436mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Model UVA-418HO

GL14PP
14W, 287mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Model UVA-2C

GL39PP
39W, 843mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Models UVA-12C - UVA-100B

GLHO58PP
58W, 645mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Model UVA-630HO

GL24PP
24W, 436mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Model UVA-6C

GL87PP
87W, 843mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Models UVA-150B - UVA-200B

GLHO90PP
90W, 846mm, Germicidal Lamp
Single End Patented 4 Pin, 254nm
for Model UVA-946HO

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

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The Polaris Scientific UV Germicidal 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.



**5-YEAR LIMITED WARRANTY
FOR POLARIS ULTRAVIOLET UV CHAMBER**

POLARIS Ultraviolet warrants the UV chamber on the POLARIS Ultraviolet product to be free from defects in material and workmanship for a period of five (5) years from the date of purchase. During this time, we will repair or replace, at its option, any defective POLARIS Ultraviolet chamber. Please return the defective part to the POLARIS Ultraviolet dealer you purchased your system from, who will return it to POLARIS Ultraviolet. We will either make the necessary repairs or, if it is determined that a replacement is required, we will provide a replacement part. We will then return the part to the dealer. This warranty does not include shipping and handling charges which will be collected from you by the dealer. Parts repaired or replaced under this five (5) year warranty will be covered under warranty to the end of the original five (5) year warranty period. This warranty is also subject to the conditions and limitations outlined under the heading "General Conditions and Limitations" below.

**ONE-YEAR LIMITED PRO-RATED WARRANTY
FOR STRUCTURAL, HARDWARE AND ELECTRICAL COMPONENTS**

POLARIS Ultraviolet warrants the structural, hardware, and electrical components to be free from defects in material and workmanship for a period of one (1) year pro-rated from the date of purchase. During this time, we will repair or replace, at its option, any defective parts covered by the warranty. Defective part(s) should be returned to a POLARIS Ultraviolet dealer, who will return it to POLARIS Ultraviolet. We will either make the necessary repairs or, if it is determined that a replacement is required, we will provide a replacement part. We will then return the part to the dealer. This warranty does not include shipping and handling charges which will be collected from you by the dealer. Parts repaired or replaced under this one (1) year pro-rated warranty will be covered under warranty to the end of the original one (1) year pro-rated warranty period. This warranty is also subject to the conditions and limitations outlined under the heading

"General Conditions and Limitations" below.

ONE-YEAR LIMITED WARRANTY FOR LAMPS, SLEEVES AND UV SENSORS
POLARIS Ultraviolet warrants original lamps, sleeves and UV sensors to be free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this time, we will repair or replace, at its option, any defective parts covered by the warranty. The warranty period for lamps and sleeves may be verified using date codes in addition to purchase receipts and POLARIS Ultraviolet's database of serial number sales date. We will advise you whether the defective item needs to be returned to the POLARIS Ultraviolet dealer you purchased the equipment from for failure analysis. Replacement lamps and sleeves provided under warranty will be sent to your POLARIS Ultraviolet dealer. If the UV sensor experiences a problem which POLARIS Ultraviolet confirms is covered by warranty, please return the sensor to a POLARIS Ultraviolet dealer you purchased the equipment from who will return it to us. We will either repair or replace the sensor and return the sensor to your dealer. This warranty on lamps, sleeves and sensors does not include shipping and handling charges which will be collected from you by the dealer. Parts replaced under this one (1) year warranty will be covered under warranty to the end of the original one (1) year warranty period. This warranty is also subject to the conditions and limitations outlined under the heading "General Conditions and Limitations" below.

GENERAL CONDITIONS AND LIMITATIONS

None of the above warranties cover damage caused by improper use or maintenance, accidents, acts of God or minor scratches or imperfections that do not materially impair the operation of the product. The warranties also do not cover products that are not installed as outlined in the applicable Owner's Manual. POLARIS Ultraviolet System warranty will be deemed null and void if any of the product labels are removed, including the pressure sensitive hologram serial number. The limited warranties described above are the only warranties applicable to the POLARIS Ultraviolet

products listed in the "Specific Warranty Coverage" section. These limited warranties outline the exclusive remedy for all claims whether based on contract, tort (including negligence), strict liability or otherwise. Disclaimer of warranties. Except as expressly warranted in writing by POLARIS Ultraviolet, the goods sold by POLARIS Ultraviolet are purchased by the buyer "as is." POLARIS Ultraviolet does not warrant that the goods are of merchantable quality or that they can be used for any particular purpose. Except as expressly warranted in writing by POLARIS Ultraviolet, POLARIS Ultraviolet makes no representation or warranty of any kind with respect to the products.

Limitation of liability. In no event shall POLARIS Ultraviolet be liable to the purchaser or any other entity for more than the invoice price received by POLARIS Ultraviolet for any non-conforming products. POLARIS Ultraviolet shall not be liable to the purchaser or any other entity for personal injury, property damage, or any direct, indirect, special, incidental, consequential, punitive, exemplary, or other damages of any kind, including without limitation the cost of procurement of substitute goods, the loss of profits, products, or production, or the interruption of business, however caused and on any theory of liability, and whether or not POLARIS Ultraviolet has been advised of the possibility of such damages. The essential purpose of this provision is to limit the liability of POLARIS Ultraviolet arising out of the sale of products to the purchaser whether for breach of contract, negligence, or otherwise. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy and notwithstanding the provisions of any other agreement between POLARIS Ultraviolet and the purchaser.

For complete Terms & Conditions see reverse side

Warranty / Terms & Conditions

ULTRAVIOLET STERILIZATION SYSTEM SPECIFICATIONS

Part Number	GPM (LPM)	Rated Life (hrs)	Lamp Watts	Voltage at 50/60HZ	Visual Warning	Audible Warning	# of Lamps	Port Size I/O	Water Chamber	Timer	Length	Width	Max. Pressure	Working Temp.	Wavelength	Microjoules
UVA-1C	1 (3.8)	9,000	10W	110V/220V	LED	BUZZER	1	1/4" MNPT (6.35 cm)	STAINLESS 304	-	10.47" (26.594 cm)	2" (5.080 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-2C	2 (7.57)	9,000	14W	110V/220V	LED	BUZZER	1	1/4" MNPT (6.35 cm)	STAINLESS 304	-	13.74" (34.900 cm)	2.5" (6.350 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-4C	4 (15.14)	9,000	17W	110V/220V	LED	BUZZER	1	1/2" MNPT (1.270 cm)	STAINLESS 304	-	15.50" (39.37 cm)	2.5" (6.350 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-6C	6 (22.71)	9,000	24W	110V/220V	LED	INDICATOR W/ ALARM	1	1/2" MNPT (1.270 cm)	STAINLESS 304	-	23.23" (59.00 cm)	2.5" (6.35 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-8C	8 (30.28)	9,000	32W	110V/220V	LED	INDICATOR W/ ALARM	1	3/4" MNPT (1.905 cm)	STAINLESS 304	-	27.87" (70.79 cm)	2.5" (6.35 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-12C	12 (45.42)	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	1	3/4" MNPT (1.905 cm)	STAINLESS 304	-	36.81" (93.50 cm)	2.5" (6.35 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-24B	24 (90.85)	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	2	1" MNPT (2.540 cm)	STAINLESS 304	✓	36.93" (93.80 cm)	3.5" (8.89 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-36B	36 (136.27)	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	3	1.5" MNPT (3.810 cm)	STAINLESS 304	✓	36.93" (93.80 cm)	5.5" (13.97 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-50B	50 (189.27)	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	4	1.5" MNPT (3.810 cm)	STAINLESS 304	✓	36.93" (93.80 cm)	5.5" (13.97 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-60B	60 (227.12)	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	5	2" or 2.5" (5.080 or 6.350 cm) FLANGE	STAINLESS 304	✓	36.93" (93.80 cm)	5.5" (13.97 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-80B	80 (302.83)	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	6	2" or 2.5" MNPT (5.080 or 6.350 cm) FLANGE	STAINLESS 304	✓	36.93" (93.80 cm)	6.26" (15.90 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-100B	100 (378.54)	9,000	39W	110V/220V	LED	INDICATOR W/ ALARM	8	2" or 2.5" MNPT (5.080 or 6.350 cm) FLANGE	STAINLESS 304	✓	36.93" (93.80 cm)	8.62" (21.90 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-150B	150 (567.81)	9,000	87W	110V/220V	LED	INDICATOR W/ ALARM	6	3" MNPT (7.62 cm) FLANGE	STAINLESS 304	✓	36.93" (93.80 cm)	8.62" (21.90 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²
UVA-200B	200 (757.08)	9,000	87W	110V/220V	LED	INDICATOR W/ ALARM	8	4" MNPT (10.16 cm) FLANGE	STAINLESS 304	✓	36.93" (93.80 cm)	8.62" (21.90 cm)	125 PSI 8.79 kgF/cm ²	35°F - 104°F (1.67°C - 40°C)	254 nm	30 mJ/cm ²

HIGH OUTPUT ULTRAVIOLET STERILIZATION SYSTEM SPECIFICATIONS

Part Number	GPM (LPM)	Rated Life (Days)	Lamp Watts	Voltage at 50/60HZ	Visual Warning	Audible Warning	# of Lamps	Port Size I/O	Water Chamber	Timer	Length	Width	Max. Pressure	Working Temp.	Wavelength	Microjoules
UVA-418HO	18 (70)	365	48W	110V/220V	LED	INDICATOR W/ ALARM	1	3/4" FNPT 1" MNPT	STAINLESS 304	✓	23.23"	3.5"	125 PSI	36°F - 104°F (2°C - 48°C)	254 nm	30 mJ/cm ²
UVA-630HO	30 (113)	365	58W	110V/220V	LED	INDICATOR W/ ALARM	1	3/4" FNPT 1" MNPT	STAINLESS 304	✓	27.87"	3.5"	125 PSI	36°F - 104°F (2°C - 48°C)	254 nm	30 mJ/cm ²
UVA-946HO	46 (175)	365	90W	110V/220V	LED	INDICATOR W/ ALARM	1	1.5" MNPT	STAINLESS 304	✓	36.81"	3.5"	125 PSI	36°F - 104°F (2°C - 48°C)	254 nm	30 mJ/cm ²

ULTRAVIOLET STERILIZATION SYSTEM ACCESSORIES

Part Number	Lamp	Quartz Sleeve	Electronic Ballast	Additional Accessories Specific to Your UV System					
UVA-1C	GL10PP	QS10	BEB-1024	UV-NUT-1	-	-	UV-SEAL	UV-WASHER	-
UVA-2C	GL14PP	QS14	BEB-1024	UV-NUT-1	-	-	UV-SEAL	UV-WASHER	-
UVA-4C	GL17PP	QS17	BEB-1024	UV-NUT-1	-	-	UV-SEAL	UV-WASHER	-
UVA-6C	GL24PP	QS24	BEB-2439	UV-NUT-1/ UV-NUT-2	-	-	UV-SEAL	UV-WASHER	UV-PLUG
UVA-8C	GL32PP	QS32	BEB-2439	UV-NUT-1/ UV-NUT-2	UV-32 SPRING	-	UV-SEAL	UV-WASHER	UV-PLUG
UVA-12C	GL39PP	QS39	BEB-2439	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	-	UV-SEAL	UV-WASHER	UV-PLUG
UVA-24B	GL39PP	QS39	ZEB-2439	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG
UVA-36B	GL39PP	QS39	ZEB-2439	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG
UVA-50B	GL39PP	QS39	ZEB-2439	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG
UVA-60B	GL39PP	QS39	ZEB-2439	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG
UVA-80B	GL39PP	QS39	ZEB-2439	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG
UVA-100B	GL39PP	QS39	ZEB-2439	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG
UVA-150B	GL87PP	QS39	ZEB-55155	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG
UVA-200B	GL87PP	QS39	ZEB-55155	UV-NUT-1/ UV-NUT-2	UV-39 SPRING	UV-TIMER	UV-SEAL	UV-WASHER	UV-PLUG

HIGH OUTPUT ULTRAVIOLET STERILIZATION SYSTEM ACCESSORIES

Part Number	Lamp	Quartz Sleeve	Electronic Ballast	Additional Accessories Specific to Your UV System					
UVA-418HO	GLHO48PP	QS48HO	HOB-4890	UV-NUT-1/UV-NUT-2	UV-32 SPRING	UV-SEAL	UV-WASHER	UV-PLUG	CLP-35UV
UVA-630HO	GLHO58PP	QS58HO	HOB-4890	UV-NUT-1/UV-NUT-2	UV-32 SPRING	UV-SEAL	UV-WASHER	UV-PLUG	CLP-35UV
UVA-946HO	GLHO90PP	QS90HO	HOB-4890	UV-NUT-1/UV-NUT-2	UV-39 SPRING	UV-SEAL	UV-WASHER	UV-PLUG	CLP-35UV

LIT-PSUV-CAT18 03/01/18

Product Ratings

Warranty Information

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

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