



HydroRite PVCUV

Low Pressure Uv Light System

Owner's Manual



Contents

- Safety Instructions.....1
- Foreword.....3
- Introduction.....4
- Installation.....9
- Operation.....12
- Maintenance.....14
- Replacement Parts.....18
- Warranty.....Back

HYR75L4
HYR150L4
HYR400L4

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IMPORTANT SAFETY INSTRUCTIONS

When using this electrical equipment, basic safety precautions should always be followed, including the following:



READ AND FOLLOW ALL INSTRUCTIONS

When installing, operating, and maintaining this equipment, keep safety considerations foremost. Use proper tools, protective clothing, and eye protection when working on or installing the equipment. Follow the instructions in this manual and take any additional safety measures appropriate. Be extremely careful in the presence of hazardous substances.

The personnel responsible for installation, operation, and maintenance of this equipment must be fully familiar with the contents of this manual.

Any servicing of this equipment must be done with the unit fully off and disconnected from the power source and all pressure bled from the liquid lines.

⚠ WARNING - Connect The Equipment Assembly To A Circuit Protected By A Ground-Fault Circuit-Interrupter (GFCI).

⚠ WARNING - Only a certified technician may install and service the HydroRite PVCUV system.

⚠ WARNING - Modifying the HydroRite PVCUV system in any way may cause bodily injury and will void the warranty.

⚠ WARNING - Do not allow children to operate the HydroRite PVCUV system.

⚠ WARNING - Only replace components with those specified by the manufacturer.

⚠ WARNING - When installing the system, ensure that power is linked to the main pump power source for the pool to ensure that the HydroRite PVCUV system never operates when the pumps are off.

⚠ WARNING - All boxes on the HydroRite PVCUV system contain high voltage components. Never open any box while the power is on.

⚠ WARNING - Never open the HydroRite PVCUV system or look directly at the UV lamp when it is operating. Direct or indirect exposure to the light emitted by the lamp will cause serious eye damage and severely burn unprotected skin.

⚠ WARNING - Replace damaged cords immediately.

SAVE THESE INSTRUCTIONS



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CONSIGNES DE SÉCURITÉ IMPORTANTES

Lors de l'utilisation de cet équipement électrique, des précautions de sécurité de base doivent toujours être suivies, notamment les suivantes :



LISEZ ET SUIVEZ TOUTES LES INSTRUCTIONS

Lors de l'installation, de fonctionnement et l'entretien de cet équipement, gardez les considérations sur la sécurité avant tout. Utiliser des outils appropriés, des vêtements de protection et lunettes de protection lorsqu'ils travaillent sur ou à l'installation. Suivez les instructions de ce manuel et prend les mesures de sécurité supplémentaires appropriées. Soyez vigilants en présence de substances dangereuses.

Le personnel chargé de l'installation, de fonctionnement et d'entretien de ce matériel doit être parfaitement familiarisé avec le contenu de ce manuel.

Aucune opération de maintenance de cet équipement doit être faite avec l'unité entièrement éteint et débranchée de l'électricité et toute la pression saigné à partir des lignes de liquides.

- ⚠ WARNING** - Connecter le montage de l'équipement sur un circuit protégé par un disjoncteur de fuite à la terre.
- ⚠ WARNING** - Seul un technicien certifié peut installer et entretenir le système HydroRite PVCUV.
- ⚠ WARNING** - Modifier le système de HydroRite PVCUV en quelque sorte peut causer des lésions corporelles et la garantie annulation.
- ⚠ WARNING** - Ne laissez pas les enfants à exploiter le système de HydroRite PVCUV.
- ⚠ WARNING** - Remplacez uniquement les composants avec celles spécifiées par le fabricant.
- ⚠ WARNING** - Lorsque vous installez le système, s'assurer que la puissance est liée à la source d'alimentation de pompe à main pour la piscine pour vous assurer que le système HydroRite PVCUV détecteur fonctionne jamais quand les pompes sont hors service.
- ⚠ WARNING** - Toutes les cases sur le système de HydroRite PVCUV contiennent des composants haute tension. Ne jamais ouvrir n'importe quelle boîte tandis que l'appareil est allumé.
- ⚠ WARNING** - N'ouvrez jamais système de HydroRite PVCUV ou regarder directement la lampe UV lorsqu'il fonctionne. Une exposition directe ou indirecte à la lumière émise par la lampe va provoquer des lésions oculaires graves et brûler gravement la peau non protégée.
- ⚠ WARNING** - Remplacer les cordons endommagés immédiatement.

CONSERVEZ CES INSTRUCTIONS



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Foreword

Congratulations on your wise investment. The Hayward® product you've selected should provide you with substantially reduced chemical maintenance, improved compliance with Health Department operating standards, chemical cost savings, and many years of reliable operation.

The HydroRite PVCUV is relatively simple to install, please take the time to read this entire manual, compare package contents with the parts list, and gather all tools required before beginning installation. Improper installation may void the warranty and create unnecessary hazards. Properly preparing for installation will also reduce facility down time.

For the purposes of this manual, it is presupposed that the installer is familiar with the physical characteristics of the pool or spa. As is the case when installing any filtration system component, all recirculating pumps, heaters, etc. need to be turned off prior to installation. If the filtration system is located below water level, additionally adjust all valves required to eliminate pressure from the system.

Physically, installation of the HydroRite PVCUV is no more challenging than installation of a chemical feeder. Any swimming pool contractor or maintenance engineer should have the tools and knowledge to perform the installation. Our technical support line can also be used to answer any questions pertaining to installation.

Congratulations on your purchase. Please complete and return your warranty registration card today.



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Introduction

Description

The HydroRite PVCUV system is a low pressure, high output amalgam, ultraviolet light sterilizer designed for secondary disinfection of commercial swimming pool applications. The HydroRite PVCUV is capable of sterilizing and oxidizing up to 333 gallons per minute of water. The system operates at light wavelengths of 254nm for sterilizing and 185nm for oxidizing. The HydroRite PVCUV is designed for commercial service and can be run 24 hours a day. The HydroRite PVCUV components are shown below.

UV Light Chamber

The UV Light Chamber is made from highly polished 316L stainless steel lined PVC. Quartz sleeves separate the low pressure, high output amalgam germicidal lamps from the water. The water to be treated flows into the bottom of the chamber. Once in the chamber, the germicidal bulbs produce a minimum 3-log reduction in pathogens. The water is then returned to the source.

Power Supply

The power supply provides the current to start and maintain the germicidal lamps. A visual indication of bulb output is displayed on the face of the power supply.



General Specifications And Sizing Guidelines

The HYR75L4, HYR150L4 and HYR400L4 have demonstrated an ability to provide a 3.5 log inactivation of *Cryptosporidium parvum* at the maximum flow rates shown in the table on the next page. The test organisms (MS2) were correlated to Crypto using a collimated beam analysis and biosimetry testing as outlined in the EPA UVDGM.



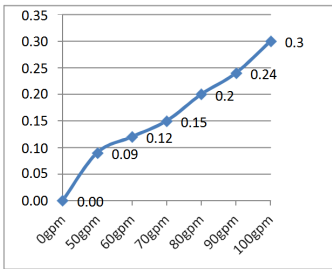
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Models

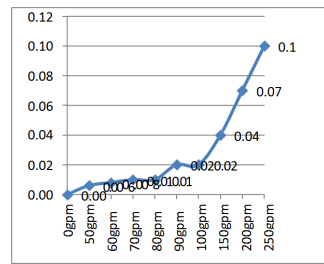
Model #	Rated Pressure (psi)	Max Rated Flow (gpm)	Rated Power (KW)	Number of Bulbs	Volume of Chamber (Gallons)	Length and Diameter of Chamber (LxD)	Weight
HYR75L4	50	up to 58	120	1	4.85	45.625" x 6"	26.4 lbs
HYR150L4	50	up to 126	240	2	8.6	47.375" x 8"	26.4 lbs
HYR400L4	50	up to 333	480	4	12.9	47.4" x 10.75"	40.8 lbs

Head Loss Data in ft of H₂O

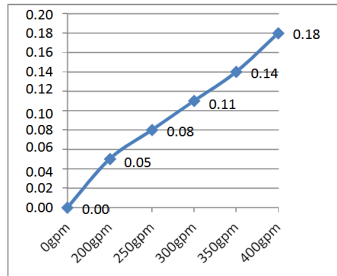
HYR75L4



HYR150L4



HYR400L4



Lamp and UV Detector Information

Lamp life is rated at 13,000 hours of operation

Lamp Part Number - HYXUVLAPCK

UV Detector Part Number - HYXUVSENCK

Electrical Specifications

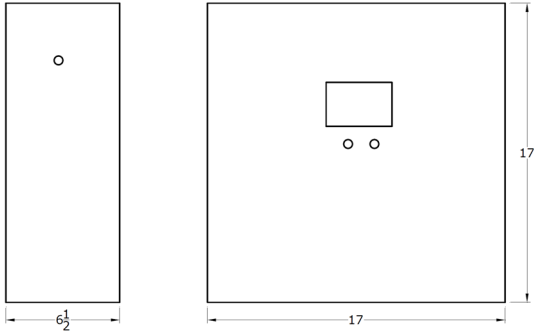
Model #	Rated Voltage (AC Volts)	Rated Amps
HYR75L4	120	1.5
HYR150L4	120	3
HYR400L4	120	6



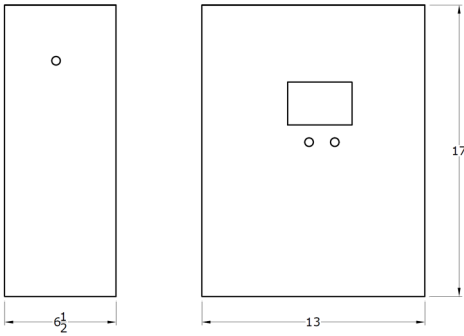
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Dimensions

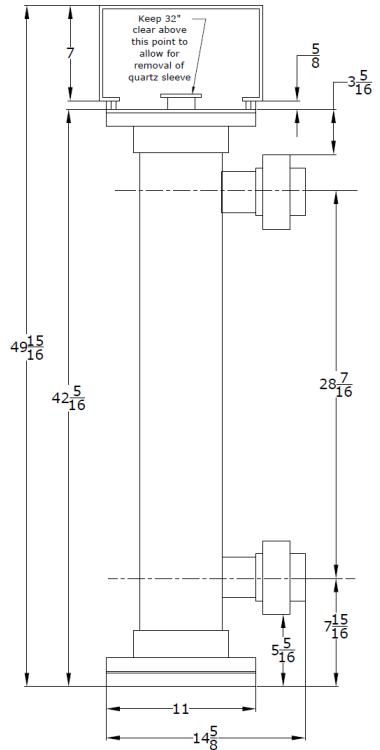
HYR400L4



HYR75L4 & HYR150L4



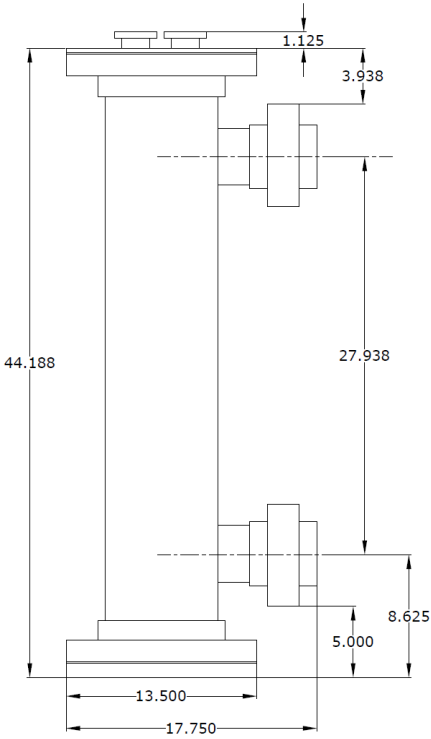
HYR75L4



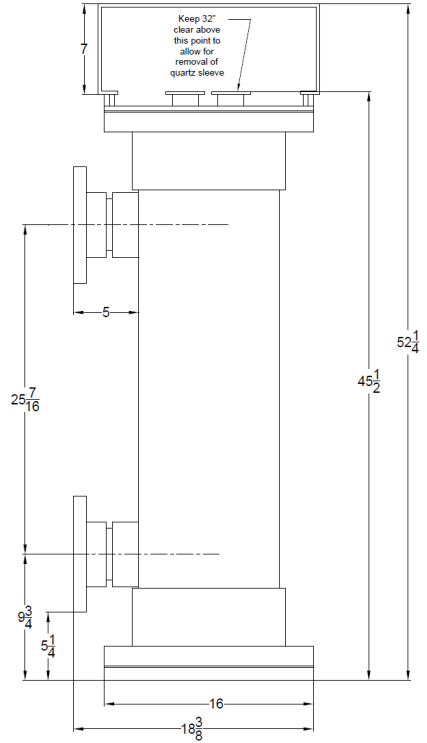


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HYR150L4



HYR400L4

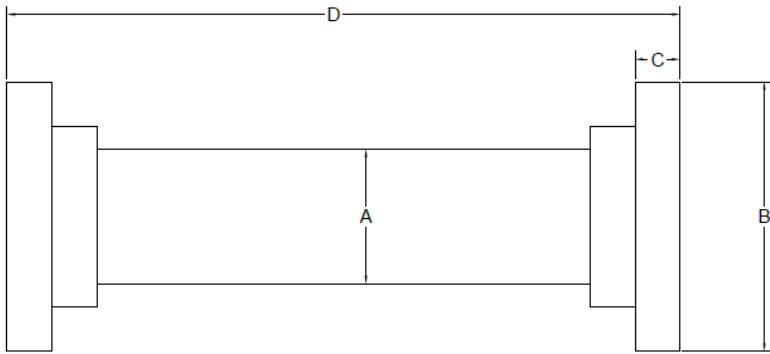




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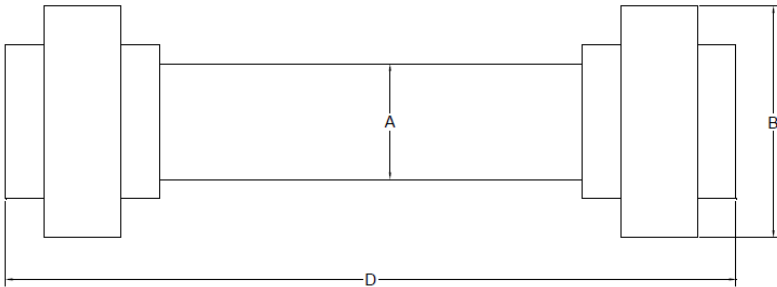
Strainer Spool Dimensions (Flanged)

Nominal Pipe Size	Pipe OD (A)	Flange OD (B)	Flange Thickness (C)	Overall length (D)
2	2 1/2	6	3/4	15 1/2
3	3 1/2	7 1/2	1	16 1/4
4	4 1/2	9	1	17 1/4
6	6 1/2	11	1 1/4	17 1/4
8	8 1/2	13 1/2	1 3/8	18 1/2
10	10 3/4	15 3/4	1 3/4	18 3/4



Strainer Spool Dimensions (Union)

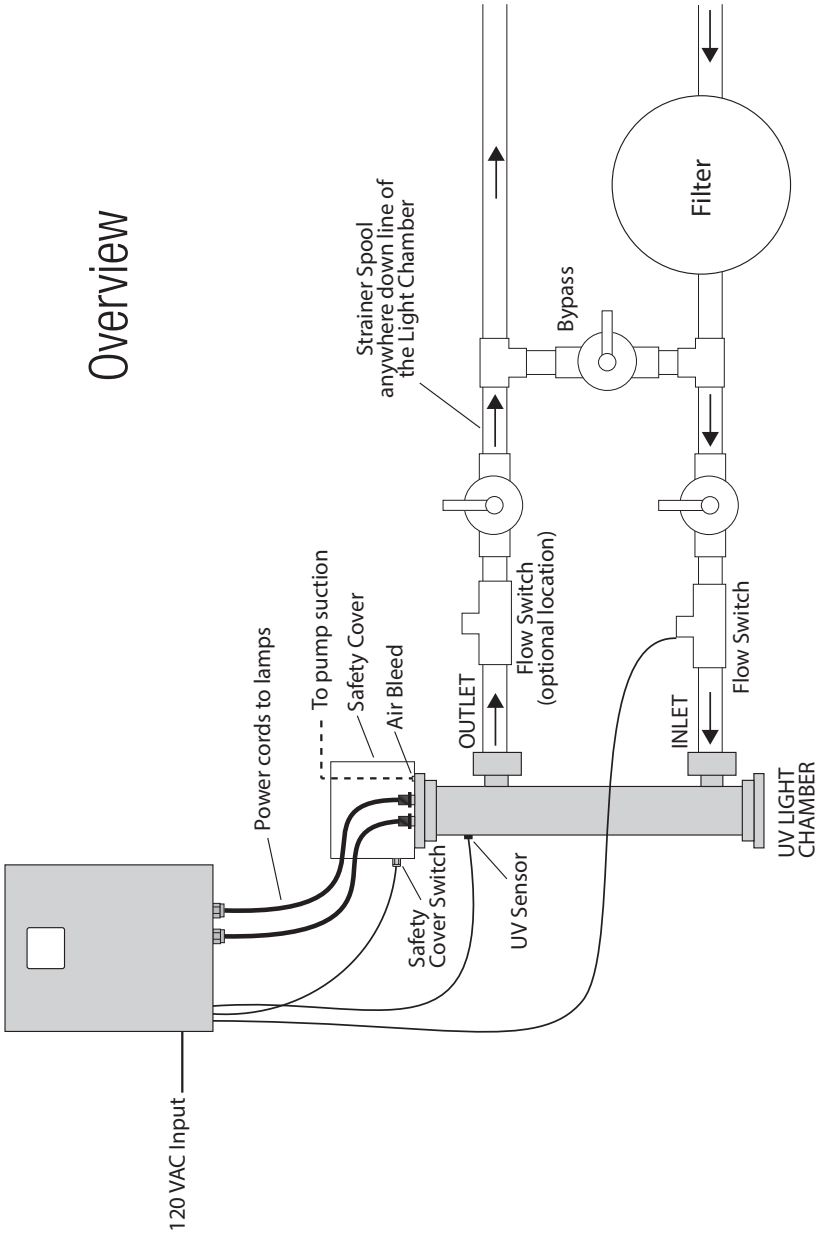
Nominal Pipe Size	Pipe OD (A)	Union OD (B)		Overall length (D)
2	2 1/2	5 1/4		20 1/2
3	3 1/2	7 1/8		21 3/4





Installation

Overview



The entire water volume of the circulation system should pass through the UV chamber. Plumb the inlet of the UV chamber as close to the outlet of the pool filter as possible. Plumb a bypass around the UV chamber to facilitate service. Use valves to isolate the chamber from the circulation system.



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Almost every pump room encountered is different. It is imperative to have prior knowledge of the facility in which the unit is to be installed and to evaluate what type of tools, wall anchors, etc. will be needed to make the installation as problem free as possible.

Power Supply Installation (Indoor Installation Only)

WARNING - Never try to support the weight of the power supply using only drywall anchors. The power supply must have a stud for support!

CAUTION - The power supply may cause interference with sensitive electronics. Avoid installing the power supply and lamp lead wire near sensitive electronics.

Locate a space on the wall in the pump room that will accommodate the dimensions of the power supply. For the HYR75L4 and HYR150L4, the power supply must mount within 5 feet of the UV chamber to ensure that the cables can easily reach the chamber. It must also mount within 3 feet of a 120 volt, 15- amp wall outlet protected by a ground fault circuit interrupter. On a drywall installation, locate studs to hold the weight of the power supply. Use concrete anchors for installations into concrete walls. Install in an easy to access location. Some installations may require a mounting stand be fabricated based on chamber access.

UV Chamber Installation (Indoor Installation Only)

Place the UV Chamber on a level surface within 5 feet of the power supply. The chamber may be installed in a vertical or horizontal position. Ensure that the unit is accessible for service by allowing access to the chamber and three feet clearance above the safety cover to access lamps and sleeves. "U" shaped horizontal installations require that the water is plumbed going down into the inlet of the chamber and coming out in the up direction from the outlet of the chamber. Vertical installations require that the water is plumbed going into the inlet of the chamber (bottom) and out of the outlet of the chamber (top). Secure the chamber with suitable hardware.



Quartz Sleeve Installation

CAUTION - Lamps and quartz sleeves are made of glass and are extremely delicate. Take care when handling or replacing these components. Wear cotton gloves when handling lamps. Hold lamps by the ends only. Never touch the glass with bare hands. Wipe any fingerprints from lamps with alcohol.

WARNING - Quartz sleeves are shipped with small rubber stops inside the bottom of the sleeve. This rubber stop must remain in place to prevent damage from lamp installation.



Place a gasket on the quartz sleeve quick disconnect flange. Carefully lower the quartz sleeve assembly into the chamber and install the quick disconnect clamp to secure the sleeve in place.

Lamp Installation

CAUTION - The wiring connector for the lamp must be installed on the lamp before the lamp is lowered into the quartz sleeve or damage to the lamp or quartz sleeve may occur.

Place the connector onto the lamp and lower the lamp all the way to the bottom of the quartz sleeve. Screw the viewing cap onto the quick disconnect quartz sleeve assembly. Push the lamp lead wire through the viewing cap until the lamp is against the rubber cushion at the bottom of the quartz sleeve and tighten the liquid tight gland.

Plumbing The Strainer

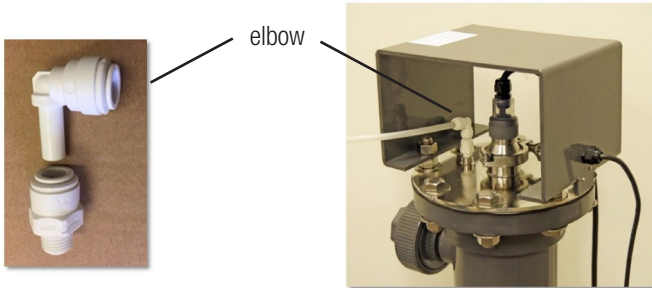
The strainer is installed on outlet side of the UV chamber plumbing. The strainer can be installed anywhere in the return line plumbing that is downstream of the UV chamber outlet.

Plumbing The Flow Switch

Tap the 1/2 inch NPT flow switch into the Chamber inlet or outlet. The flow switch must be installed within the isolation valves. Connect the flow switch wire to the connection on the side of the power supply marked Flow.

Plumbing The Air Bleed On Vertical Mount Chambers

1. Insert 3/8" elbow into the 3/8" female adapter (shown below) on top of the UV chamber.



2. Tap 3/8" NPT valve into the pump suction plumbing.
3. Connect the two points with 3/8" tubing.
4. Turn on the pool pump then open the 3/8" valve.

3/8" NPT
Valve





System Wiring

All systems must be wired so that when the pool circulation pump is off the power to the HydroRite PVCUV is off with the exception of spray pads that may have bypass flow through the chamber when the main pumps are off.

HYR75L4 and HYR150L4: These units are cord connected at the factory with two standard plugs for a 15-amp wall outlet. Connect both power cords to a 120V electrical outlet protected by a ground fault circuit interrupter.

Bonding

All HydroRite PVCUV systems require bonding. Bonding is accomplished by connecting a minimum 8 AWG bonding wire from the bonding grid in the equipment room to the UV system power supply and the UV system chamber. The bonding lugs on the power supply and chamber are clearly marked with a decal that reads "Bonding Lugs".

Safety Cover Wiring

Place the safety cover on top of the UV chamber and attach with the supplied nuts. Be sure the micro-switch is depressed when the cover is installed. Plug the safety cover wire into the side of the power supply.

Uv Sensor Installation

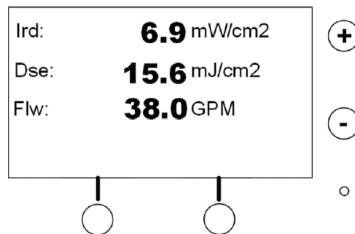
Install the UV sensor into the sensor body. Hand tighten the UV sensor nut. Connect the UV sensor wire to the connector on the side of the power supply marked "UV Sensor".

Operation

Start-Up Procedures

Open the chamber isolation valves and close any bypass valves. Allow the chamber to fill with water. Turn the system on with the switch located on the power supply.

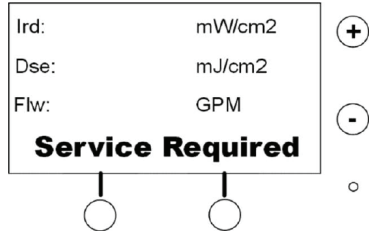
Operate the system for 10 minutes to allow the lamps to warm up to full power. The UV display can display UV dose in mJ/cm^2 , UV intensity in mW/cm^2 or W/M^2 , and flow.



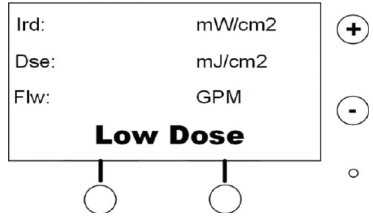


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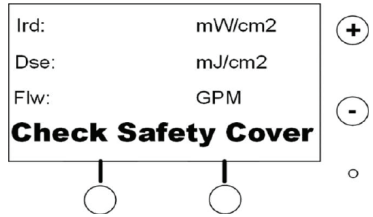
If UV dose falls below 39mj/cm² the message SERVICE REQUIRED will scroll across the display. This indicates the need for quartz sleeve and sensor window service or lamp replacement.



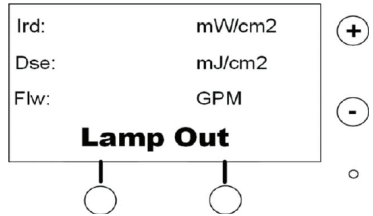
If UV dose falls to below 30mj/cm² the message LOW DOSE will scroll across the display.



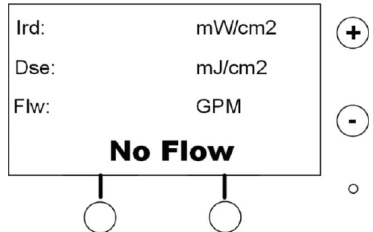
In the event the safety cover is removed while the unit is in operation, the lamps will go out and the message CHECK SAFETY COVER will scroll across the display.



When one or more lamps are not functional the message LAMP OUT will scroll across the display.



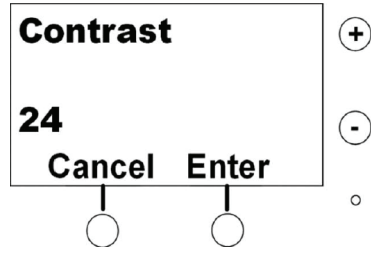
If the flow monitoring device senses no or low flow, the message NO FLOW will scroll across the display.



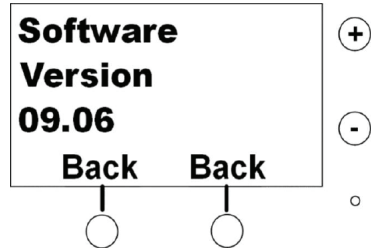


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To change the display contrast, press menu, select Contrast and adjust with the +/- buttons.



To view the display software version, press menu, Software Version.



Maintenance

Daily Check

Check the UV display on the power supply daily. Under normal operating conditions, the UV display will indicate a value over 40mJ/cm². A meter display of less than 40mJ/cm² an indication that maintenance or repairs are needed. The most common cause is dirty quartz sleeves and sensor window.

60 Month Maintenance Plan

Month	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Wipe Down UV Chamber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Address Leaks	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clean Sleeves*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clean Sensor Window*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect Electrical Connections		X		X		X		X		X		X		X		X		X		X
Order Replacement Lamps**				X				X				X				X				X
Replace Lamps					X				X					X						X
Order Replacement Sleeves**								X					X						X	
Replace Sleeves									X					X						X
Confirm AC AMP Draw***		X		X		X		X		X		X		X		X		X		X

*Indicates as needed, may be required more often

**See Replacement Parts

***See Electrical Specifications or contact technical support



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1. Record Dose Displayed on Screen

The system displays dose on screen. An adequate dose is 40mj/cm² to 60mj/cm². When the UV dose falls to 39mj/cm² the green LED will go out and the yellow LED will illuminate. This indicates the need for quartz sleeve and sensor window service or lamp replacement. If the yellow LED is ignored and dose drops to 30mj/cm², the yellow LED will begin to flash. This indicates that service is critical. If no display is present, please contact technical support.

2. Wipe Down the UV Chamber

The chamber should be wiped down to prevent premature or unnecessary component failure or degradation. Using a lint free cloth and a mild soap solution, wipe the chamber down from top to bottom. This will also assist the operator with any leak identification addressed in the next maintenance item.

3. Identify and Address Any Leaks

The UV chamber has threaded and gasketed connections that should be inspected. A dressing leaks immediately will avoid unnecessary damage and is an essential part of proactive maintenance.

If a leak is observed, the connection is leaking and should be addressed by isolating the machine, draining the chamber as needed, and cleaning the impacted area. Fresh thread tape or a replacement gasket should be applied, and the fitting re-secured. If a cracked or faulty component is the cause of the leak, reference Replacement Parts and contact technical support for assistance.

4. Clean the Sleeves

Overtime, mineral deposits will coat the UV sleeve and prevent UV light from effectively penetrating through this build up. Sleeves should be cleaned quarterly or as dose on screen drops.

5. Clean the Sensor

The UV sensor monitors light intensity within the chamber. Deposits can coat the quartz window and prevent accurate readings.

6. Inspect Electrical Connections

With all incoming power disconnected, inspect all electrical connections for any discoloration or damage. Check the tightness of all screw connections. Ensure all wire nut connections are tight.

7. Order Replacement Lamps

UV lamps have a useful life of 13,000 hours of operation. They should be proactively replaced every 1.5 years. Reference Replacement Parts and contact an authorized Hayward dealer with the unit serial number to place order.

8. Replace UV Lamps

Guidance on proper methods of handling broken fluorescent lamps or disposal is available from the US EPA and from many state agencies and local health and environmental authorities.

9. Order Replacement Sleeves

UV Sleeves can become etched with mineral deposits and will be required to replace once they no longer become clean following service. Reference Replacement Parts and contact an authorized Hayward dealer with the unit serial number to place order.



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10. Replace Sleeves

11. Confirm Incoming AC AMPS

Using a voltmeter set to AC AMPS, clamp meter around wire in the upper left corner of power supply. Rated AMPS draw listed under Electrical Specifications for the specific model. If expected AMPS are not displayed, contact technical support for instruction.

Manually Cleaning Quartz Sleeve and UV Sensor Window (Non-NSF Models)

CAUTION - Lamps and quartz sleeves are made of glass and are extremely delicate. Take care when handling or replacing these components. Wear cotton gloves when handling lamps. Hold lamps by the ends only. Never touch the glass with bare hands. Wipe any fingerprints from lamps with alcohol.

QUARTZ SLEEVES ARE SHIPPED WITH SMALL RUBBER STOPS AT THE BOTTOM OF THE SLEEVE. THIS RUBBER STOP MUST REMAIN IN PLACE TO PREVENT DAMAGE FROM LAMP INSTALLATION.

Unplug the unit from the power source to prevent the risk of electric shock or system damage. Isolate the chamber from the pool circulation system by closing the inlet and outlet valves and opening the bypass valve. Drain the chamber. Loosen the liquid tight gland and remove the viewing cap. Lift the lamp out of the quartz sleeve without disconnecting it from the wiring harness. Once the lamp is completely free of the quartz sleeve it can be safely disconnected from the wiring harness. Remove the quick disconnect clamp and remove the sleeve from the chamber.

NOTE: If the power supply is within 5 feet of the UV chamber, the quartz sleeve may be removed without disconnecting or removing the lamp.

WARNING - Read all cautions and directions provided with the muriatic acid used. Always add acid to water. Use only with adequate ventilation. If strong odor is noticed, STOP, ventilation is inadequate. Leave area immediately. If the work area is not well ventilated you MUST use a properly fitted and maintained NIOSH approved respirator for acid fumes.

Clean the quartz sleeve by wiping with a clean cotton cloth and a standard glass cleaner. Sleeves with calcium accumulation will require cleaning with a 5:1 water and muriatic acid solution.

Check the gasket on the quartz sleeve quick disconnect flange. Carefully lower the quartz sleeve assembly into the chamber. Gently press the quartz sleeve into place and install the quick disconnect clamp to secure the sleeve in place. Replace the safety cover, ensuring the micro-switch is depressed when installed. Hand tighten the four nuts.

Remove the UV sensor from the chamber and carefully remove the quartz window. Clean the quartz window by wiping with a clean cotton cloth and standard glass cleaner. Windows with calcium accumulation will require cleaning with a 5:1 water and muriatic acid solution. Reinstall the window and sensor. On models without the quartz window, clean the quartz on the face of the monitor.

Chemically Cleaning Quartz Sleeve and UV Monitor Window (NSF Models)

Unplug the unit from the power source to prevent the risk of electric shock or system damage. Isolate the chamber from the pool circulation system by opening the bypass valve and closing the inlet and outlet valves. Drain the chamber.



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Connect a HydroRite PVCUV Acid Washer or other suitable cleaning setup to the chamber as shown. Water and muriatic acid are mixed in the cleaning solution tank at a ratio of 5:1. Five parts water to one part muriatic acid. Flush the chamber for 2 to 5 minutes with cleaning solution. Drain the cleaning solution from the chamber. When using the HydroRite PVCUV Acid Washer, the solution is pumped back into the cleaning solution tank for reuse. Remove the cleaning solution hoses from the chamber and close the cleaning solution valves. Open the inlet and out valves to restore pool circulation to the chamber.

Lamp Replacement

Lamps are designed to provide a useful service life of 13,000 hours. After that time, the lamps will need replacing.

CAUTION - Lamps and quartz sleeves are made of glass and are extremely delicate. Care should be taken when handling or replacing these components. Wear cotton gloves when handling lamps. Hold lamps by the ends only. Never touch the glass with bare hands. Wipe any fingerprints from lamps with alcohol.

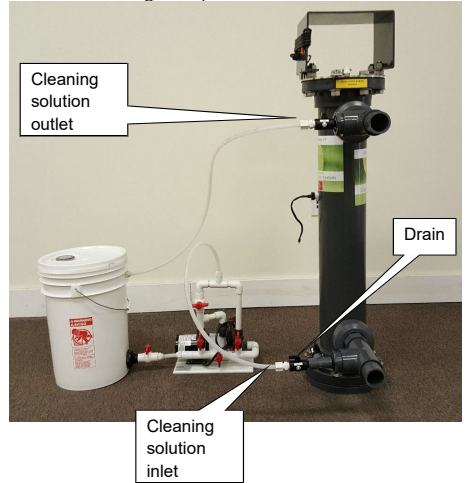
Unplug the unit from the power source to prevent the risk of electric shock or system damage. Allow the system to cool for ten minutes. Isolate the chamber from the pool circulation system by opening the bypass valve and closing the chamber inlet and outlet valves. Remove the safety cover. Loosen the liquid tight gland and unscrew the viewing cap. Lift the lamp out of the quartz sleeve without disconnecting from the wiring harness. Once the lamp is free of the quartz sleeve it can be safely disconnected from the wiring harness.

CAUTION - the wiring connector for the lamp must be installed on the lamp before the lamp is lowered into the quartz sleeve or damage to the lamp and sleeve may occur.

Place the connector onto the lamp and lower the lamp all the way to the bottom of the quartz sleeve. Screw the viewing cap onto the quick disconnect quartz sleeve assembly and tighten the liquid tight gland. Replace the safety cover, ensuring the micro-switch is depressed when installed. Hand tighten the four nuts.

Recommended Broken Lamp Handling Practices

Guidance on proper methods of handling broken fluorescent lamps is available from the US EPA and from many state agencies and local health and environmental authorities. The EPA guidelines can be found at <http://www.epa.gov/mercury/spills/index.htm>.





HAYWARD®

Replacement Parts



HYXUVFL240CK



HYXUVLAPCK



HYXUVEXTCK



HCXUVFL120CK



HYXUVBALCK



HYXUVDSPCK



HYXUVSENCK



HYXUVQTZCK

Part #	Description	Carton Qty	Weight
HYXUVDSPCKL4	Replacement UV Display	1	2
HYXUVBALCK	Replacement UV Ballast	1	5
HYXUVQTZCK	Replacement UV Quartz Sleeve Kit - Complete	1	4
HYXUVLAPCK	Replacement UV Lamp	1	3
HYXUVSENCKL4	Replacement UV Sensor Kit - Complete	1	2
HYXUVSENCKL4KIT	Replacement UV Sensor L4 Housing Kit		
HYXUVEXTCK	Replacement UV Lead Wire	1	2
HYXUVFL240CKL4	Replacement UV Flow Switch for Model 240PVC/480PVC	1	2
HYXAIRBLEEDKIT	Air Bleed Kit	1	
HYXCONTACT	Contact	1	
HYXUVEXTCBL12	Power Supply UV Lamp Lead Wire 12'	1	
HYXDOWL4	Digital Flow Meter Adapter, 5 to 24V DC	1	
HYXAMONL4	Lamp Current Monitor 2, L4, One per A UV Bulb	1	
HYXPMPDSC4	Pump Shutoff Box, 30 Amp 240V, Single Phase	1	
HYXCHAMB75	120PVC CR Chamber	1	
HYXCHAMB150	240PVC CR Chamber	1	
HYXCHAMB400	480PVC CR Chamber	1	

HAYWARD® Pool Products Limited Warranty

To original purchasers of this equipment, Hayward Industries, Inc. warrants its HydroRite PVCUV to be free from defects in materials and workmanship for a period of Three (3) years from the date of purchase with the following exception. The UV lamps, UV sensor, Quartz sleeves and stainless steel sleeve carry a One (1) year warranty from the date of purchase.

Part	Warranty Period	Coverage
Controller	1 Years	Parts only
Vessel	1 years	Parts only
UV Lamp	6 Months	Parts only
UV Sensor	1 Year	Parts only
Quartz Sleeve	6 Months	Parts only
Stainless Steel Sleeve	6 Months	Parts only

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care or any Acts of God. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option, within 90 days of the receipt of defective product, barring unforeseen delays, without charge.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center please visit us at www.haywardpool.com.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

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*Supersedes all previous publications.



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