



Ultraviolet Water Disinfection System

Installation, Operation and Maintenance Manual



Models with Remote Ballast

CB1SS-S, CB1-S, CB1SS-HO, CB1-HO

KEEP THIS MANUAL ON HAND

IMPORTANT: Anyone responsible for the installation, maintenance or operation of this equipment must have a thorough understanding of the instructions and safety requirements before attempting to install this system.



Dear Customer:

Thank you for selecting UV Superstore, Inc. to provide the equipment for your ultraviolet water treatment needs. The CobraUV® Series is specifically intended for ultrapure water requiring lower flows as well as less demanding applications. These systems can be used in a wide range of commercial and industrial applications. Your CobraUV® Series system reflects our broad experience in UV water treatment and our commitment to quality craftsmanship. At the heart of the CobraUV® Series system is our premium quality UV lamps that are manufactured in the USA. These systems are built with the customer in mind and incorporate reliable parts from around the world. When properly installed and maintained, your UV Superstore, Inc. equipment will provide years of reliable service.

Please review the Installation, Operation and Maintenance (IOM) Manual carefully and keep it on hand for readily available assistance. UV Superstore, Inc. designs its models for service maintenance ease. The IOM manual provides essential information to safely install and service your system.

UV Superstore, Inc. manufactures ultraviolet equipment with the highest quality components available. Your equipment has met thorough testing procedures ensuring the efficiency of your system. As with any equipment regular maintenance procedures are required. You will have to replace your UV lamps and other items from time to time. UV Superstore, Inc. offers a complete line of replacement parts, not only for your products, but for most lines of ultraviolet water treatment equipment. Please call us for details.

UV Superstore, Inc. has built an industry-leading reputation by providing a reliable and knowledgeable technical support team. We stand by ready to assist you in all of your UV water treatment needs. Please contact us with any questions you may have regarding your system.

Best regards,

The UV Superstore, Inc. Team

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DESIGNED &
ASSEMBLED
IN THE
USA

UV  **SUPERSTORE**

One Source for All Your UV Needs!

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SAFETY INSTRUCTIONS

In order to protect end users and operators from injury, safety precautions must be followed. This installation, operation and maintenance manual outlines important safety issues. The following **WARNING SYMBOLS** will be found throughout the manual to alert the end users to take important precautions:



EYE PROTECTION

This symbol indicates that eye protection must be worn to protect from UV light as well as debris.



HAND PROTECTION

This symbol signifies that hand protection must be worn to protect the lamps from skin oils as well as protect the operator from UV light and sharp materials caused by a broken lamp/quartz.



ELECTRIC SHOCK WARNING

This symbol signifies electrical shock possibility. Failure to observe this warning may lead to serious injury or death.



CAUTION

This symbol indicates a potentially dangerous situation. Failure to adhere to this warning may lead to serious injury and/or death.



INFORMATION

This symbol signifies helpful information.

1) Information



Please read this manual prior to installing, starting up and operating the equipment. The equipment uses the latest in UV technology, and has been designed to make operation and maintenance easy.

The quality of the liquid entering the UV system needs to be monitored. Based on your water quality, the UV system will need to be cleaned on a periodic basis. Maintenance of the UV system will require replacement parts. It is suggested that key spare and replacement parts be kept on hand. For best operation, it is recommended to use the correct replacement parts. Incorrect replacement parts could result in damage to the system and void the warranty.

2) About Ultraviolet (UV) Disinfection

The technology uses UV light to target and disable disease-causing microorganisms and pathogens.

Over 100 years ago, scientists discovered that if you exposed pathogens to UV light, their reproduction was limited. The UV light source they used resided in the UVC range of the light spectrum. Specifically, they discovered that light in the 254 (NM) nanometer range was the most effective wavelength for this process.

When many pathogens are exposed to UV light, their cells become damaged and this damage inhibits reproduction. The UV light, produced by a special UV lamp, damages the cell's DNA and RNA and once damaged, they are unable to replicate. This physical process renders them harmless. The amount of damage is a result of the intensity of the UVC output multiplied by the time the pathogens are exposed to the light. The applied dosage is commonly referred to as microwatts or millijoules and is often expressed as $\mu\text{Ws}/\text{cm}^2$ or mJ/cm^2 . Most residential applications require a UV dosage ranging from 16,000 up to 40,000 $\mu\text{Ws}/\text{cm}^2$ depending on water quality.

Why are more consumers selecting UV technology?

- a) UV is considered a green technology
- b) No chemicals are added, so there is no need for chemical removal
- c) No chemical storage
- d) UV works instantly without requiring a residence time
- e) Easy maintenance

3) Major Components



The UV disinfection system will come with a number of components.

The following list highlights the main ones:

- a) Disinfection Chamber (aka vessel)
- b) Remote Electronic Ballast (Standard and High Output Models)
- c) Ultraviolet Lamps and Quartz Sleeves

a) Disinfection Chamber

The chamber is manufactured from high-grade 316L stainless steel. The vessel has been passivated and electropolished to protect the vessel against aggressive high purity water. The chamber has an inlet/outlet connection, and a viewport or sensor port.



b) Remote Electronic Power Supply

The Remote Electronic Power Supply is designed to be plugged into an electrical outlet within 5 feet of the chamber. Equipment should be kept off lines where there are surges or brownouts. Always disconnect power before servicing the system. The remote Standard and High Output electronic power supply has built-in monitoring functions to indicate lamp operational status and is equipped with an audible alarm. For models using the standard output power supply with dry relay contact port, the power supply is also equipped with a run time meter, lamp life timer, audible alarm and dry contact signal output port.

**Power Supply and Chamber mounting screws are not included.*

c) Lamps and Quartz sleeves Inspection



Use cotton gloves when handling lamps and quartz sleeves to prevent them from becoming dirty. If you break the lamps or quartz sleeves, take extra care to prevent yourself from becoming injured.

If damage has occurred during shipment, please put the damaged product(s) to the side and back in the original packaging and contact manufacturer. A claim will have to be made immediately to the shipping company.

4) Important Safety Precautions

Read and follow all safety precautions to guard against injury. Basic safety precautions must be observed. Keep on hand for future reference.

UV lamps and their quartz sleeves can become razor sharp if broken. Take care when installing and removing the quartz sleeves. Compression fittings should only be hand-tightened. Do not use wrenches or other tools.

	• Ultraviolet light (UVC) is harmful to eyes and skin. Use UV lamps only inside the disinfection chamber with the appropriate protective covering. Avoid exposure to UVC radiation. • CobraUV Series UV System should only be used for its' intended purposes as described in the IOM Manual. The use of attachments not recommended or sold by manufacturer may cause an unsafe condition. • CobraUV Series UV System must be properly installed in accordance with the IOM Manual and in compliance with all applicable local and state regulations before use. Read and observe all important notices on the disinfection system. • CobraUV Series UV System is intended for indoor use only.
	• To avoid possible electric shock, take special care when using water with this equipment. Always shut off and disconnect power to the unit before: 1. Making repairs—We strongly recommend that a qualified individual who fully understands the IOM Manual perform service and/or repairs to your system. 2. Cleaning 3. Replacing a UV Lamp • Do not operate disinfection system if it has a damaged cord or plug, if it is malfunctioning, or if it is dropped or damaged in any way. • The power cord of disinfection system is equipped with a 3-prong grounding plug that mates with a standard 3-prong grounded wall outlet to minimize the possibility of electric shock. Be sure the outlet for the disinfection system is wired and grounded properly. DO NOT under any circumstances cut or remove the third prong from the power cord. • Always unplug the disinfection system from outlet when not in use, before putting on or taking off parts, and before cleaning. Never unplug by pulling on the power cord. Always grip plug firmly and pull straight out of the outlet. • Shut down system before servicing: 1. Turn off water supply to the CobraUV Series UV disinfection system 2. Disconnect all power to the CobraUV Series UV disinfection system 3. Drain water from the system.
	• Eye protection must be worn! UV light is extremely harmful to eyes and skin and will cause burns. Do not look directly or indirectly at the UV light. • Never operate the UV lamp outside of the UV system. • Do not expose your skin for any prolonged time. Use protective clothing and eyewear (make sure it is UV resistant) when servicing equipment. • If accidentally exposed to UV light for an extended period, immediately seek medical attention. Symptoms for eye exposure include burning, itching and redness. Symptoms for skin exposure are similar to sun burn.
	• Use cotton gloves when handling lamps and quartz sleeves. Skin oils will adhere to the lamps and sleeves and prevent UV light from properly emanating. • If the sleeves become dirty, wipe them with a lint free cloth with denatured alcohol.

5) Preparation for Installing UV System



Before you begin, perform the following pre-installation steps:

a) System Inspection

Ensure that your CobraUV Series system is correctly sized for your desired dosage and flow capacity.

b) Water Quality

For optimum performance of your UV system, water quality is extremely important. Proper pretreatment is essential for the UV disinfection system to operate as intended.

UV disinfection dosages are dependent upon the quality and clarity of incoming water. Impurities in water can interfere with UV intensity and cause dosage to fall to unsafe levels. Have your water tested to determine it meets the standards in the below table. If any of the elements exceed the maximum levels shown in the table, contact your water professional for recommendations for proper pretreatment. All CobraUV Series models are rated for a UV Transmission (UVT) rate of 95% for clear fresh water and 99% for RO and DI water. If your UVT is less than 95/99%, contact your water professional.

The following table shows levels that are recommended for installation:

Table 1

Element	Recommended Maximum Levels (1mg/L=1ppm)	Actual Value
Turbidity	<5 NTU	
Suspended Solids	<5 mg/l	
Color	None	
Iron	0.3 mg/l	
Manganese	0.05 mg/l	
pH	6.5 to 9.5	
Hardness	<120 ppm	

c) Water Supply Pressure Check

Check the pressure of the water supply. The CobraUV Series UV system is designed for a maximum water pressure of 100 PSI. If your water pressure exceeds 100 PSI, install a pressure reduction valve before installing the UV system.

d) Location Selection



Select a location that meets the following guidelines:

- The unit must be installed between the cold water source and the water heater as inlet temperature must not exceed 100°F. (See Figure I for proper installation sequence.)
- The disinfection unit can be installed either horizontally or vertically. (See Figure I for water flow direction.)
- The unit must be within 5' of an electrical outlet. A 6' cord is included with the system.
- The power supply contains sensitive electronic components. It is recommended that the unit be plugged into a surge suppressor to help protect electronic components.
- The unit must be protected from freezing. Freezing damage will void the warranty.
- The unit should be placed where a potential leak will not cause water damage. UV Superstore, Inc. is not responsible for water damage.
- Vibration of ultraviolet equipment will damage lamps and lead to premature system failure. Choose a location for your UV Superstore, Inc. Cobra System that is isolated from vibration. Potential vibration sources include heavy equipment, poorly connected pipes and erratic or improper pumps. A water hammer may cause O-Ring failure. If your system is subject to water hammer conditions, we recommend that you install a water surge suppressor.
- There must be enough clearance to remove the UV lamp and the quartz sleeve for replacement and regular maintenance.
- Recommended clearance is length of unit plus four inches.

e) Environmental Issues Relating to UV Lamps



UV lamps need to be recycled like fluorescent lamps because they contain mercury. Please follow your local recycling laws. Please visit www.lamprecycle.org for help finding a recycling center in your area. In the event that you are unable to find a disposal location, please contact manufacturer's representative.

6) Installation Instructions



It is recommended that all installation and maintenance procedures should be done in accordance with state and local electrical and building codes.

Your CobraUV System can be mounted either horizontally or vertically.



WATCH FOR CLEARANCE Be sure to allow a minimum clearance of the length of the unit plus 4" from the unit to any obstruction on one end in order to be able to replace the lamp and quartz sleeve.

ELECTRICAL SHOCK Check for hidden electrical wiring before drilling holes.



INSTALLATION ORIENTATION Water flow must be from the bottom to the top of the unit for a vertical installation. Inlet and outlet must be pointing upward for horizontal installation.

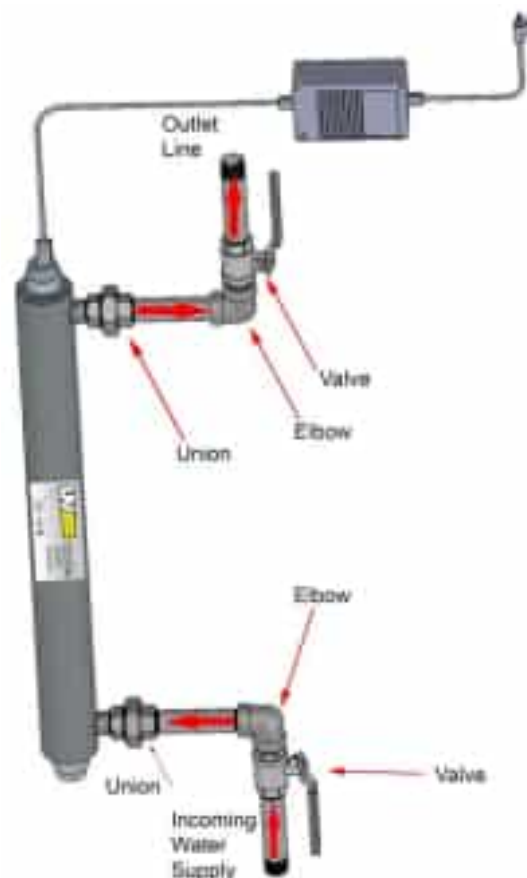
POWER SUPPLY MOUNTING* The power supply should be mounted to the wall, near the disinfection chamber. It is recommended to place the power supply above the chamber and away from any water connection point(s). This will block water from potentially leaking onto the power supply by means of a leak at a connection point or a "sweating" system. To prevent any water from potentially entering the power supply, make sure you allow for a "drip-loop" on the lamp and power cord.

**Power Supply and Chamber mounting screws are not included.*

TYPICAL CORRECT INSTALLATION (Figure 1)



Typical Horizontal Installation



Typical Vertical Installation

a) Quartz Sleeve Installation

The quartz sleeve surrounds the lamp and prevents water from contacting the lamp and electrical parts. The sleeve is made of pure fused quartz which allows 99% of the ultraviolet light to pass through.



The quartz must be kept clean and free of organic buildup to ensure optimum ultraviolet transmission. The quartz sleeves need periodic cleaning with the frequency of such cleanings determined by the quality of the water passing through the system. Use cloth gloves to handle quartz sleeves and UV lamps to avoid putting fingerprints on the sleeves and lamps.

After the ultraviolet unit has been secured and the inlet/outlet piping connections have been made, remove gland nuts from each end of the disinfection unit.



Take great care when removing the quartz sleeve from the packing carton.

Slowly and carefully slide the quartz through the head until it protrudes equally beyond the nipple on each end of the chamber. Place the O-Ring over the end of the quartz and push the O-Ring back until it stops at the nipple.



Be very careful when installing the gland nuts over the quartz sleeve. Tighten each gland nut simultaneously by hand making sure that the sleeve protrudes from each nipple equally. **ONLY TIGHTEN BY HAND – NEVER USE PLIERS.** Make sure as you tighten the gland nut that you maintain a clearance between the stop ridge machined in the gland nut and the edge of the quartz sleeve.



Compression

Nut

BA-CN



Compression

Nut

CN0007



After you have tightened the gland nuts and all other plumbing connections, open the outlet valve. Slowly open the inlet valve and flush out all remaining air. Then, close the outlet valve and open the inlet valve fully. Check the unit for leaks. If you find a leak at the gland nut, tighten the nut further. If the leak continues, drain the unit and inspect the quartz O-Ring and quartz sleeve for possible damage. Once you complete checking the unit, carefully reassemble O-Ring and tighten gland nut. Re-pressurize the unit and check again for leaks.

b) UV Lamp Installation



The UV lamp is very fragile. Do not handle it with bare hands. Use **clean cotton gloves or cloth** when handling lamp to keep it free of dust or fingerprints. If dust or fingerprints get on the lamp, wipe it with a clean cloth and denatured alcohol.



Take care when removing the ultraviolet lamp from the packing carton. Slowly and carefully slide the lamp into the quartz sleeve. Attach the ultraviolet lamp socket and ensure the socket is pushed all the way down to the base of the lamp for proper contact. Then screw the strain relief into the threads of the compression nut.

c) Plumbing System Sanitization Procedure

It is recommended before the initial use of your UV disinfection system and after routine maintenance procedures, to sanitize your water system to ensure that no organisms are present.



Prior to start-up, flush the UV system and discharge piping for at least 5 minutes to rinse out any possible debris left from installation.



NOTE: Always follow the sanitizing procedures required by applicable state or local laws.

7) Operation & Monitoring

Your CobraUV Series ultraviolet disinfection system will provide years of safe, effective and reliable disinfection with minimal routine maintenance. Establish and implement a routine physical monitoring and maintenance schedule.

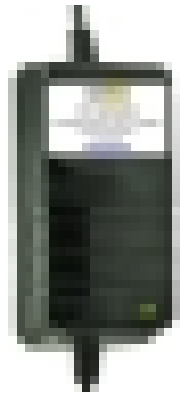
For models using the optional standard output power supply with dry relay contact port, the power supply is also equipped with a run time meter, lamp life timer, audible alarm and dry contact signal output port. The ultraviolet lamp is monitored on the ballast display. Immediately replace any failed lamp.

a) Lamp Status Indicator—Power Supply Standard & High Output

***P/N BLSTA0007 Standard Output
100-240V 50-60Hz***

***P/N BLSTA0009 High Output
100-240V 50/60Hz***

The ballast located midway on the power cord has built-in monitoring functions to indicate lamp operation. The LED will glow green when the lamp is operational and red when the lamp has failed. There is also an audible alarm that will sound when the lamp has failed.



***P/N BLSTA0010 Standard Output with Relay Contact
100-240V 50-60Hz***

For models using the standard output power supply with dry relay contact port, the power supply is also equipped with a run time meter, lamp life timer, audible alarm and dry contact signal output port.



It is strongly recommended that a surge suppressor be installed between the power cord and the outlet, or the unit to be plugged into a GFI outlet to protect the sensitive electronics in the ballast.

b) Viewport

For models not equipped with a UV Monitor, a viewport has been installed on the UV chamber. The purpose of a viewport is to safely verify lamp operation without the potential exposure to UV rays. The viewport assembly consists of a viewport, sight glass, foam washer and an O-ring.

8) Maintenance

Always disconnect power before servicing the system!

a) UV Lamp Maintenance

Your CobraUV Series ultraviolet disinfection system will give many years of safe and effective disinfection service with minimal routine maintenance.



Replace your UV lamp on an annual basis

UV lamps lose intensity over the 10000 hours rated life, roughly one year of continuous use. Your UV lamp will still be glowing after the years worth of use, but the glow that you can see is not in the UV spectrum that provides the microorganism reduction the system is designed for. The Ultraviolet light is not visible to the naked eye, and the system has been sized to provide enough UV intensity to disinfect for up to the 10,000 hours of use. Using lamps longer than this can cause your system to not provide UV intensity high enough for proper dosage for disinfection. Knowing that the UV intensity will fall from the original levels at the end of one year, your UV system is designed to provide rated dosage ***at the end of lamp life to provide safe and effective disinfection.***

When a new lamp is installed, it is providing dosage higher than rated at, falling down to rated dosage at the end of one year. This is the reason it is highly recommended for you or your water professional to keep accurate records of when lamps are replaced and replace them annually. For your convenience, a maintenance log has been provided in the back of the IOM Manual.



The UV lamp is very fragile. Do not handle it with bare hands. Use **clean cotton gloves or cloth** when handling lamp to keep it free of dust or fingerprints. If dust or fingerprints get on the lamp, wipe it with a clean cloth and denatured alcohol.

Take care when removing the ultraviolet lamp from the packing carton. Slowly and carefully slide the lamp into the quartz sleeve. Attach the ultraviolet lamp socket and ensure the socket is pushed all the way down to the base of the lamp for proper contact.

b) Quartz Sleeve Cleaning Procedure

In order to ensure proper disinfection, the quartz sleeves need to be inspected, monitored and maintained. The UV lamps produce heat and UVC output, which may cause certain water characteristics to adhere to and bond on the sleeve preventing the UVC from reaching the targeted pathogens. This can cause the quartz sleeves to foul. To a great extent, your frequency of cleaning will depend upon the water quality (i.e. amount of minerals present in the liquid). The more minerals present in the water, the more frequently the quartz will require cleaning.

Manual Cleaning of Quartz Sleeve

Significant film or debris deposits formed on the quartz sleeves will impair the ability of the Ultraviolet rays to penetrate through the quartz and into the water. To a great extent, your frequency of cleaning will depend upon the water quality. The more minerals present in the water, the more frequently the quartz will require cleaning. A periodic visual inspection of the quartz will be necessary to determine the frequency of cleaning. Initial inspection should take place after thirty (30) days of operation. If the quartz is dirty, shorten the cleaning intervals. If the quartz is clean, lengthen the cleaning intervals.

To clean quartz sleeves, depressurize the unit by first turning off the valves on the inlet and then the outlet of the vessel. Turn off the power to the Ultraviolet system. Drain the vessel. Unscrew the strain relief securing the lamp connector from the compression nut and slide the lamp out about 2" from the compression nut. Remove the lamp connector from the lamp and carefully remove the lamp. Unscrew the compression nuts from the nipples. Remove the O-rings and slide the quartz sleeve out of the unit, taking care to not let the quartz bump against any metal parts. The quartz sleeves may be cleaned with warm soapy water and rinsed thoroughly. If this is not sufficient, denatured alcohol may be used.

Assembly is the reverse of removal.



Lamp and quartz sleeve are fragile

**It is recommended to sanitize the entire system after servicing
(See *Plumbing System Sanitization Procedures in Installation Section*)**

c) Viewport Maintenance

For models not equipped with a UV Monitor, a viewport has been installed on the UV chamber. The purpose of a viewport is to safely verify lamp operation without the potential exposure to UV rays. The viewport assembly consists of a viewport, sight glass, foam washer and an O-ring.

The foam washer acts as a cushion between one side of the sight glass and the viewport itself. The O-ring provides a seal and serves as a cushion to the other side of the sight glass.

This assembly will require periodic maintenance similar to the lamp and quartz maintenance schedule. A periodic visual inspection of the viewport assembly is recommended. Unscrew the nickel plated viewport from the chamber and inspect the sight glass for any cracks. If a crack has occurred this will need to be replaced. It is recommended to replace the O-ring every 3-5 years as the O-ring can degrade over time.

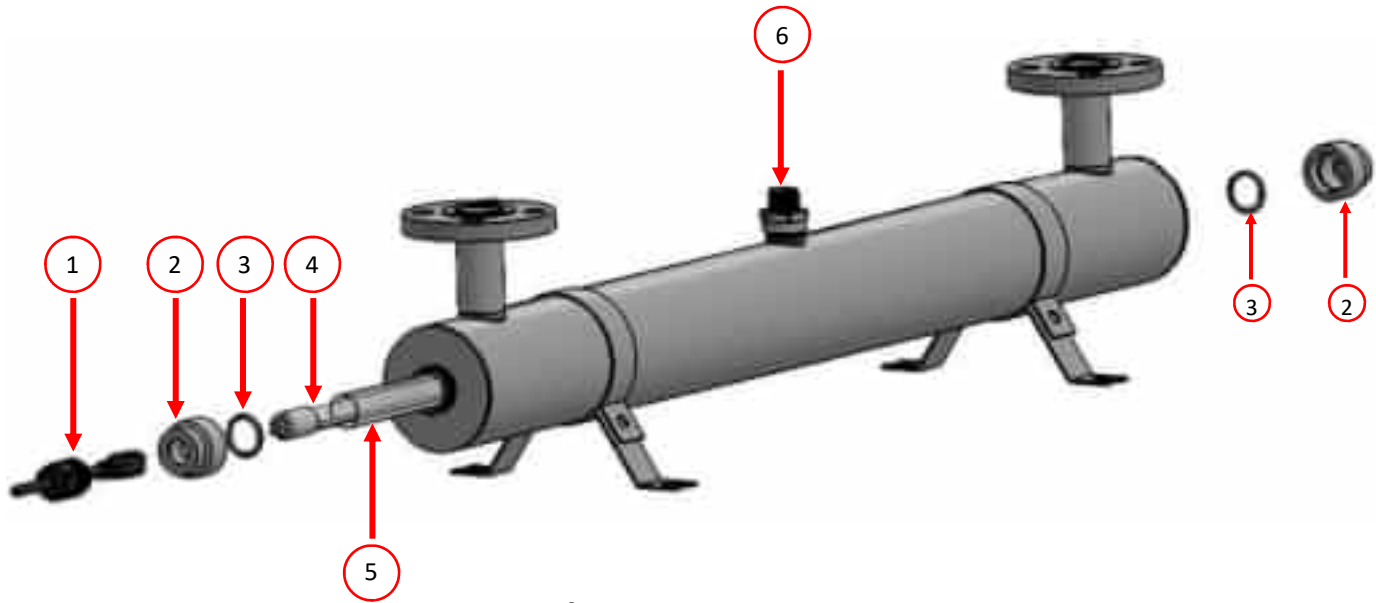
Reattach viewport after routine maintenance has been performed.

d) Lamp Recycling



UV lamps need to be recycled like fluorescent lamps because they contain mercury. Please follow your local recycling laws. Please visit www.lamprecycle.org for help finding a recycling center in your area. In the event that you are unable to find a disposal location, please contact manufacturer's representative

CobraUV® Series with Remote Ballast



Replacement Parts List

Item No.	Description	Part No.	Quantity required			
			Model No.			
			CB1-S	CB1SS-S	CB1SS-HO	CB1-HO
1	Power Supply—Standard Output	BLSTA0007	1	1		
	Standard Output with Dry Contacts	BLSTA0010	1	1		
	Power Supply—High Output	BLSTA0009			1	1
2	Compression Nut	CN0007 BA-CN/BA-CN2	2	2 2	2	2
3	Sleeve O-Ring, EPDM	ORNG0009	2	2	2	2
4	Standard Output Lamp—254NM	GL-5463-4S74R		1		
	Standard Output Lamp—254NM	GL-5843-4S74R	1			
	Standard Output Lamp—185NM	GV-5843-4S74B	1			
	High Output Lamp—254NM	GL-5463-4H74Y			1	
	High Output Lamp—254NM	GL-5843-4H				1
	High Output Lamp—185NM	GV-5843-4H				1
5	Quartz Sleeve, Open	BA-Q7 BA-Q15	1	1	1	1
6	UV Viewport	VPM0001	1	1	1	1
	O-Ring for UV Viewport	002045	1	1	1	1

Troubleshooting

Situation	Recommended Action
Unit is leaking	• Check to see that the compression nut is tight. • Verify that inlet pressure does not exceed 100 PSI. • Make sure the O-Ring is seated properly. • Lubricate O-Ring with food grade silicone. • Check O-Ring for cracks or tears. Replace if necessary. • Check quartz sleeve for possible cracks or chips. If sleeve is cracked or chipped, call dealer for replacement.
Poor bacterial performance	• Replace lamp if it is more than 365 days old or nearing the end of its lamp life. • Inspect quartz sleeve and make sure it is clean. • Perform routine maintenance. • Check water quality. If water quality has changed, take corrective action. Water supply cannot exceed maximum concentration levels as shown in Table 1 in Pre-Installation Instructions.
Lamp Status LED is red	• Lamp has failed. Replace Lamp.
Lamp Status LED is not glowing	• Check for power at outlet. If power is present, replace ballast.
Audible Alarm Sounds	• Lamp has failed. Replace Lamp.
Power Fails	• Unit will restart automatically when power is restored. • The unit is designed for continuous operation. Never connect the unit to a timer or other device, which will cause the unit to cycle on and off. Excessive cycling will reduce lamp life.

If questions still remain after completing a troubleshooting procedure, please contact the manufacturer.

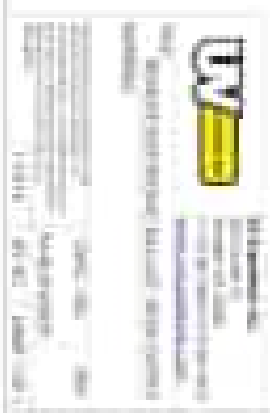
Maintenance Log

You must perform routine maintenance in order to achieve optimum performance levels from your CobraUV® Series water treatment system. As you perform routine maintenance or necessary service on your system, record the dates in the maintenance log. The maintenance section of the IOM Manual provides instructions for servicing and maintenance procedures.

Replace Lamp (every 365 days)	Clean Sleeve (as needed)	Replace Quartz Sleeve (every 3 years)	Replace O-Rings (with Quartz sleeve change)

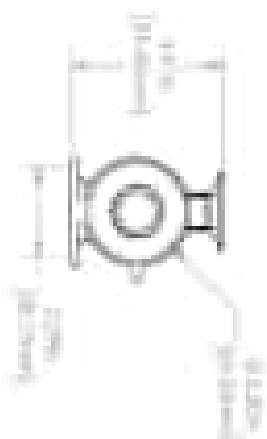
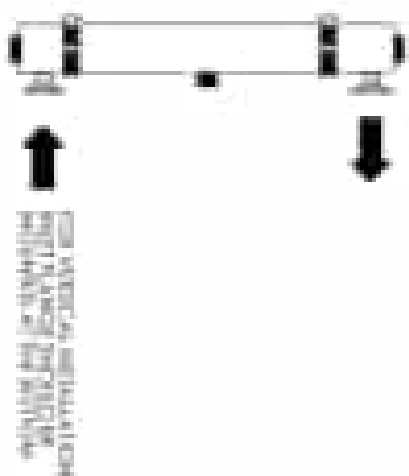
Model Number

Serial Number





DAY 1







CobraUV® Series Specifications for Models with Remote Ballast

Model #	CB1SS-S	CB1SS-HO	CB1-S	CB1-HO	CB1-S-TOC CB1-S-O3D	CB1-HO-TOC CB1-HO-O3D
Max Capacity Clear Fresh Water	4 GPM	7 GPM	12 GPM	20 GPM		
Max Capacity DI/RO Water	5 GPM	9 GPM	15 GPM	25 GPM	For sizing parameters consult Sales team	For sizing parameters consult Sales team
UV Dosage Millijoule/ cm ²	30 mJ/cm ²	30 mJ/cm ²	30 mJ/cm ²	30 mJ/cm ²	Dosage parameters vary depending on requirements	Dosage parameters vary depending on requirements
No of UV Lamps	1	1	1	1	1	1
Lamp Watts	28 W	40 W	40 W	80 W	40 W	80 W
Voltage	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz
Treatment Chamber Material	316L SS	316L SS	316L SS	316L SS	316L SS	316L SS
Standard Operating Pressure	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI
Fittings	3/4" MPT 3/4" Sanitary	3/4" MPT 3/4" Sanitary	1" MPT 1" Sanitary 1" Flange	1" MPT 1" Sanitary 1" Flange	1" MPT 1" Sanitary 1" Flange	1" MPT 1" Sanitary 1" Flange

Limited Warranty

UV Superstore's CobraUV® Series Residential Water Treatment systems are provided with a limited warranty. These units carry a warranty to be free from defects in materials and workmanship for one year from date of purchase under the conditions of normal usage and service for the complete system. Additionally, these units carry a four year warranty for the treatment chamber. If the product fails or malfunctions during the warranty period, UV Superstore shall inspect the in-operative product and have the option to repair or replace any components, which, in the assessment of UV Superstore were originally defective or became so under normal conditions of use and service. Customers must first call UV Superstore and be issued a Return Authorization number before returning any product or component. The equipment or component must be returned to UV Superstore freight prepaid and insured to the address below.

Warranty Statement

UV Superstore warrants replacement lamps, purchased for routine maintenance, to be free from defects in material and workmanship for a period one year from the date of purchase. During this time, UV Superstore will repair or replace, at its option, a defective lamp free of charge except for shipping and handling charges and any prorated charges (where applicable).

The warranty period on replacement lamps will be verified using date codes and/or purchase receipts. UV Superstore will advise whether the defective item needs to be returned for failure analysis.

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 lamp. The warranties also do not cover products that are not installed as outlined in the applicable IOM Manual.

The limited warranties described above are the only warranties applicable to the lamps outlined. These limited warranties outline the exclusive remedy for all claims based on a failure of or defect in any of these lamps, whether the claim is based on contract, tort (including negligence), strict liability or otherwise. These warranties are in lieu of all other warranties whether written, oral, implied or statutory. Without limitation, no warranty of merchantability or of fitness for a particular purpose shall apply to any of these lamps.

UV Superstore, Inc. does not assume any liability for personal injury or property damage caused by the use or misuse of any of the above products. UV Superstore, Inc. shall not in any event be liable for special, incidental, indirect or consequential damages. UV Superstore liability shall, in all instances, be limited to repair or replacement of the defective product or part and this liability will terminate upon expiration of the applicable warranty period.

For all warranty claims you must contact UV Superstore at the below address. All claims must be filed within 30 days.



820 Tucker Court, Winder, GA 30680

Phone: 770-307-3882

Fax: 770-307-3872

sales@uvsuperstore.com

www.uvsuperstore.com

NOTES: _____





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