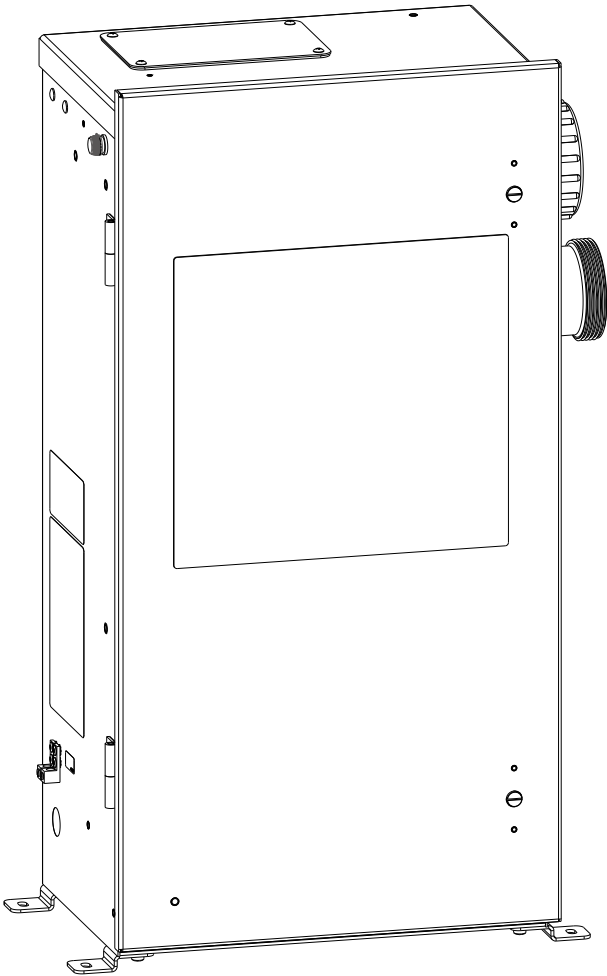




DEL AOP[®] 50

INSTALLATION INSTRUCTIONS & PRODUCT MANUAL









DEL AOP

C-M-P.COM/DEL

4-2305-01 Rev.G

IMPORTANT WARNINGS & SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

- Read this manual completely before attempting installation. Failure to install in accordance with the installation instructions could void warranty and result in injury or death.
- All permanent electrical connections should be made by a qualified electrician.
- A pressure wire connector, labeled "bonding lug", is provided on the outside of the unit to permit connection to a minimum No. 6 AWG (13.3 mm²) solid bonding conductor between this point and any metal equipment, metal enclosures of electrical equipment, metal water pipes, or conduit within 5 feet (1.5 meters) of the unit as needed to comply with local requirements.
- Install at least 5 feet (1.5 meters) from wall of pool. Install ozone generator no less than one (1) foot above maximum water level to prevent water from contacting electrical equipment. Install in accordance with the installation instructions.
- Follow all applicable electrical codes.
-  **DANGER** **ELECTRIC SHOCK HAZARD:** Be sure to turn power OFF and disconnect from power source before any service work is performed. Failure to do so could result in serious injury or death.
- The DEL AOP® 50 must be installed in an outdoor location, or indoors in a forced air ventilated room, and installed so that the orientation is exactly as shown in **Figure 1**. Install to provide water drainage of generator to protect electrical components.
- Mount the DEL AOP® 50 so that it is inaccessible to anyone in the pool. Never attempt any servicing while unit is wet.
-  **WARNING** Short-term inhalation of high concentrations of ozone and long term inhalation of low concentrations of ozone can cause serious harmful physiological effects. DO NOT inhale ozone gas produced by this device.
-  **DANGER** For your safety, do not store or use gasoline, chemicals or other flammable liquids or vapors near this or any other appliance.
-  **NOTICE** To maintain cosmetic integrity, protect this unit from direct prolonged sunlight exposure.
-  **WARNING** To reduce the risk of injury, do not permit children to use this product, unless they are closely supervised at all times.
-  **WARNING** If unit is not operated according to instructions, high dosages of harmful substances may potentially be released.
- **ENVIRONMENTAL NOTICE** - Hg-Lamp CONTAINS MERCURY. Manage in accordance with disposal laws. See: www.lamprecycle.org.

SAVE THESE INSTRUCTIONS!

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1 GENERAL INFORMATION

1A. Description

The DEL AOP® 50 ozone and UV sanitizer system described in this manual is designed to provide the benefits of ozonated and UV treated water in an environmentally safe and effective manner. The high quality, specially engineered components ensure efficient water sanitation output and reliable performance. As a result of proper use, the DEL AOP 50 virtually eliminates the unpleasant effects of traditional chemicals. The DEL AOP 50 ozone generators are safe and harmless to your equipment when installed properly.

1B. Specifications

Power Requirements:

240V, 60 Hz, 1Ø, 0.6 Amp

Shipping Weight:

Approx: 54lbs/25.5kg

Location Requirements:

Mounting: Floor Mounted

Ambient Temp.: 35°F - 120°F (2°C - 49°C)

Max Flow Rate (for NSF 50 compliance):

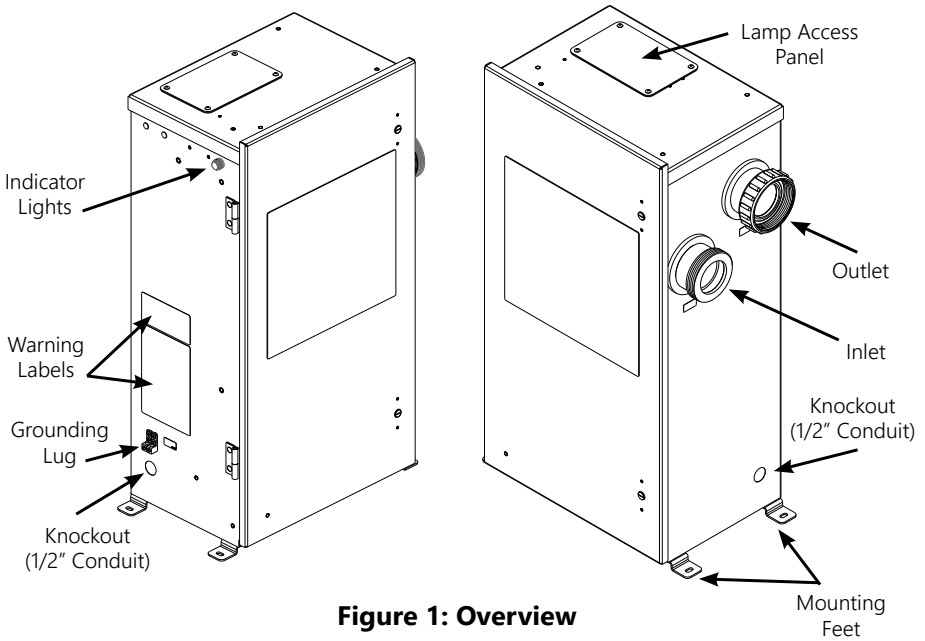
189 LPM (50 GPM)

This product is designed for supplemental disinfection and should be used with registered or approved disinfection chemicals to impart residual concentrations.

NSF/ANSI 50, Section 13 disinfection efficacy testing for 3-log (99.9%) or greater of *Pseudomonas*, *Aeruginosa* and *Enterococcus Faecium*.

Specific residual levels of EPA registered disinfection chemicals may be required by the regulatory agency having authority.

2 INSTALLATION



2A. Pool Preparation

To achieve optimal performance from the ozone system, the pool must be as clean as possible to start with.

1. Backwash or clean filters one day before starting the ozone generator.
2. Superchlorinate pool water using a chlorine based shock treatment so the water has a sustained 1-3 ppm free chlorine level.
3. Test pool chemistry and adjust pH between 7.4 and 7.6. Adjust total alkalinity between 80 and 120 ppm.
4. Run pool filtration continuously for 24 hours prior to starting ozone system.

2 INSTALLATION

2B. Location

Locate the DEL AOP 50 in a clean, protected area, either indoors or outdoors (preferably out of direct sunlight). If possible, locate the unit out of reach of sprinklers or drainage spouts. Allow sufficient access for maintenance (2 ft clearance above and 1 ft around the unit) and all plumbing and electrical hookups.

2C. Mounting

2C-1. Floor Mounting

The DEL AOP 50 is shipped with the mounting feet installed in the floor mounting position. Adjust the position of the feet if necessary and tighten the screws. Mount the DEL AOP 50 to the equipment pad through the slots provided in the feet using appropriate hardware for the mounting surface.

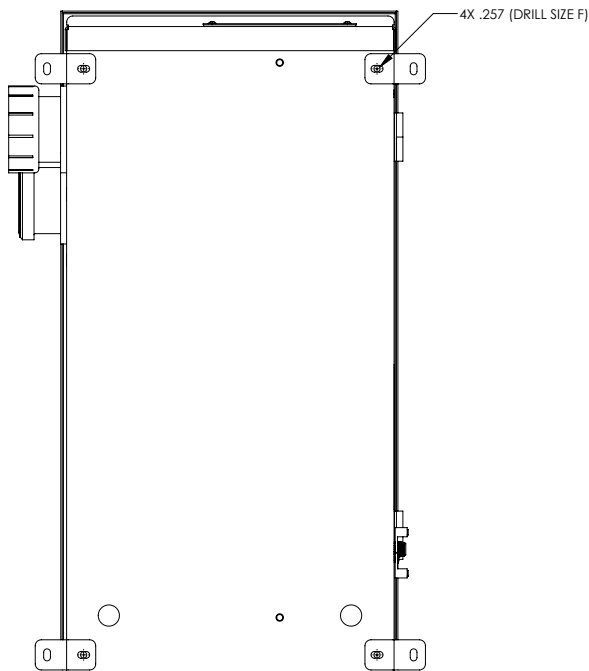


Figure 2: Wall Mounting Hole Pattern

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2C-2. Wall Mounting

The DEL AOP 50 unit does not have holes for wall mounting but can be mounted on the wall if desired.

1. Drill 4 holes, (.257 in, drill size F), in the back of the enclosure approximately as shown in Figure 2.
2. Open door as described in SECTION 4C-1 and clean out debris.
3. Install mounting feet in drilled holes with hardware provided.
4. Mount unit to wall through the slots in the feet using appropriate hardware for the mounting surface.

2D. Plumbing

The DEL AOP 50 can easily be added into the pool's plumbing loop. All the components are contained inside the enclosure so only the water inlet and outlet need to be installed into the pool's return line.

2D-1. Plumbing the DEL AOP 50

The DEL AOP 50 must be installed in the pool's main return line after all other pool equipment (pump, filter, heater, and cleaner). The outlet of the SEC (or MDV-100) must be at least 10 feet from the first return to the pool. Figure 3 shows the most basic installation. For installation with additional sanitizers and pool cleaners, refer to Appendix A.

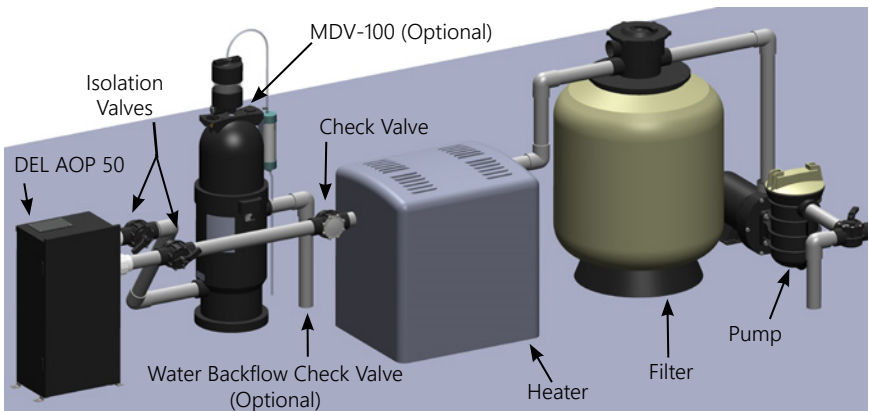


Figure 3: DEL AOP 50 Location in Pool Loop

2 INSTALLATION

The DEL AOP 50 will come with one half of a union fitting installed on inlet and outlet, the other half of the fittings will be located in the DEL AOP 50 parts bag. Use the union fittings provided to connect the AOP 50 inlet and outlet to your pool's plumbing as shown in Figure 3.

2D-2. Plumbing the Mixing Degas Vessel (optional)

Under normal operation of the DEL AOP 50, bubbles will appear in the return flow to the pool. To remove the bubbles from the flow, an accessory mixing degas vessel, or MDV, can be installed downstream of the DEL AOP 50. The MDV-100 is designed for use with the DEL AOP 50 and is recommended on indoor, covered, or vinyl-lined pools. For more information, please call 1 (800) 733-9060 and ask for Technical Support.

2D-3. Water Backflow Check Valve

If the pool equipment is mounted above the water line, a check valve (such as a CMP Hydroseal™) must be installed between the pump outlet and the injector manifold to prevent the pump from draining and losing its prime, when not in use.

2D-4. Leak Test

Turn on pool circulation system and run at the highest normal operating pressure. Check for leaks outside and inside of the AOP system. Correct any leaks outside of the system. If any leaks are found inside the AOP, contact CMP Customer Service at c-m-p.com/support.

2E. Electrical

2E-1. Main Power

Connect the DEL AOP 50 to the pool timing clock so that the DEL AOP 50 operates simultaneously with the pool pump. The DEL AOP 50 has four available knockouts for a 1/2" conduit fitting, two on the back and one on each side. Remove only the ideal knockout for the installation

3 OPERATION

and install the proper conduit fitting. Remove the cover (Refer to SECTION 4C-1) and locate the terminal block (Refer to Figure 5) on the left side of the enclosure. Connect Line 1, Line 2, and ground to the terminal block as indicated by the label on the generator bracket. Refer to the **IMPORTANT SAFETY INSTRUCTIONS** at the beginning of this manual for important wiring information.

2E-2. Grounding Lug

Using a solid copper conductor, connect to the grounding lug on the left side of the DEL AOP 50 to an appropriate earth contact.

3A. Initial System Start-Up

Upon completing all of the system connections and cleaning the pool as outlined in SECTION 2, you are ready to start the DEL AOP 50.

1. Check electrical connections.
2. Turn on pool circulation system and verify the DEL AOP 50 has power.

3B. Normal Operation

Indicator Lights: The DEL AOP 50 has two external indicator lights on its left side. When the DEL AOP 50 has power, the power indicator will illuminate. The flow indicator may be on momentarily. Once adequate water is flowing, the flow indicator will go out. If the flow indicator light is still lit after the pump has reached steady flow, refer to Trouble Shooting (SECTION 5).

3C. System Shut-Down

The following sequence of steps must be followed for servicing or for storage.

1. Shut off power at the breaker.
2. Shut off water to the unit.
3. Open door.
4. Disconnect all electrical, plumbing, and mounting connections for storage.

3 OPERATION

3D. Winterizing


If the pool will be shutting down for the winter months and the DEL AOP 50 will remain exposed to freezing temperatures, the unit must be drained to prevent freeze damage to the wetted components. To drain the DEL AOP 50, see the following steps.

1. If the DEL AOP 50 is mounted below the water level, isolation valves must all be CLOSED to prevent excess water from draining into the unit.
2. Open the door.
3. Locate the drain plug (Refer to Figure 6) and remove to drain the remaining water in the DEL AOP 50.
4. Allow all the water to drain from the DEL AOP 50 before threading the plug back into the UV reactor.

3E. Water Chemistry

Regular chlorine testing should be performed as normal. Ozone will be eliminating the majority of contaminants. Therefore, only a small amount of chemicals will need to be added – just enough to maintain the appropriate residual level of free chlorine. Ozone is pH neutral and will not cause pH or total alkalinity fluctuations.

4A. System Electromechanical Overview

 **CAUTION** Disconnect power before performing service. Refer to the **IMPORTANT SAFETY INSTRUCTIONS** displayed in the front of this manual.

Refer to Figures 4 and 5.

4A-1. Ozone Modules

Each ozone module has a green light to indicate that the ozone power supply is operating properly.

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NOTE: Ballast located on enclosure ceiling not shown.

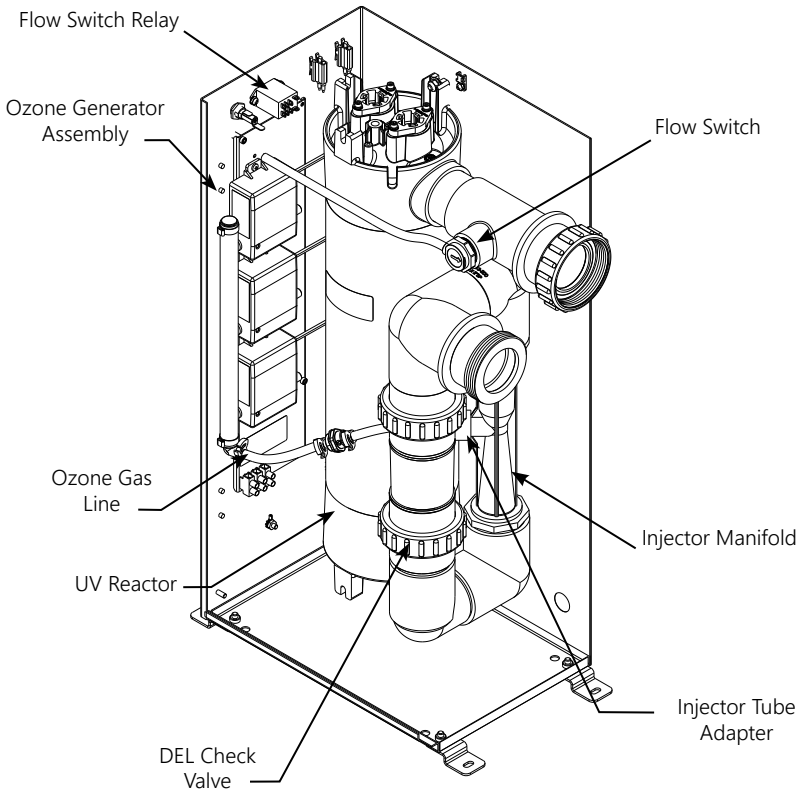


Figure 4: DEL AOP 50 Electro-Mechanical Overview

4A-2. Ultraviolet Lamps

There are two lamps in the UV reactor of the DEL AOP 50. A slight glow can be seen near the top of the lamps during normal operation.

4A-3. Injector Manifold

Water flowing through the injector manifold generates the vacuum that draws ozone into the water. The DELCheck™ spring loaded valve automatically adjusts for various water flow rates to keep the DEL AOP 50 operating over a wide range of conditions.

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4A-4. Injector Tube Adapter

This connects the ozone gas line to the injector manifold. When servicing this component, do not tighten past 10 in-lbs or the component may be damaged.

4A-5. Ozone Gas Line

Gas from the ozone modules is drawn through the ozone gas Line by the Injector and into the water. The ozone check valve in this line prevents water from migrating back to the ozone modules when the DEL AOP 50 is not running.

4A-6. Ozone Module Filters

The air entering the ozone modules passes through individual filters on each module inlet. The filters are held in place by the rubber filter cap. (Refer to Figure 5 for a more detailed view)

4B. System Maintenance

Use a Phillips head screwdriver to remove the UV access panel or a flat tool to open the enclosure cover as needed.

NOTE: The DEL AOP 50 will not operate until the UV access panel is replaced.

4B-1. Ozone Module Maintenance

The green ozone module lights on the ozone modules indicate that the ozone power supply is operating properly. When an indicator light goes out, replace the corresponding ozone module.

4B-2. Ozone Module Replacement Interval

Ozone module life expectancy is 5 years. Even if the ozone module light(s) are glowing, the ozone module may be producing little or no ozone after this period of time due to contamination within the corona discharge ozone chamber.

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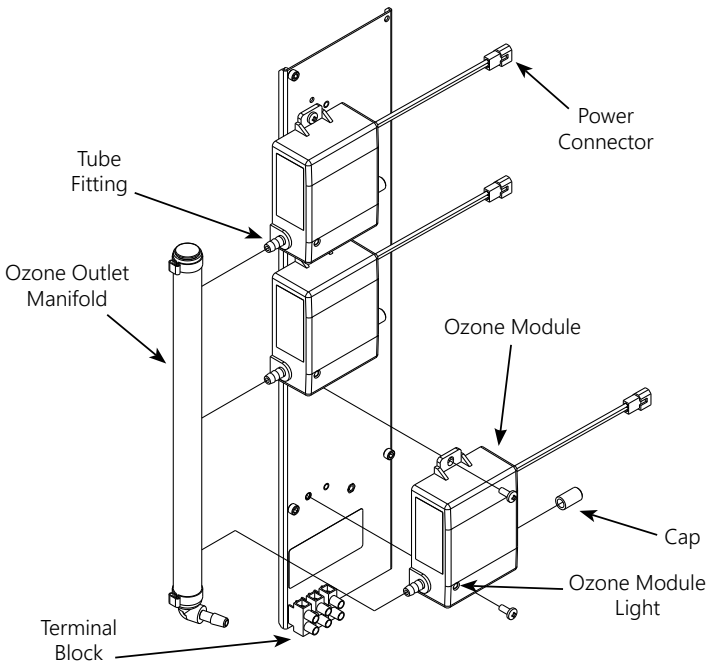


Figure 5: Ozone Generator Subassembly

4B-3. Ozone Gas Line Replacement Interval

Replace the ozone gas line every year or sooner, if needed. If there is evidence of water leaking past the ozone check valve toward the ozone modules, shut down the DEL AOP 50 immediately and replace the ozone gas line. If water entered the ozone modules, run the filtration system so air will be drawn through the ozone modules and they can dry out. ozone modules will return to normal operation when dry.

⚠ WARNING Trace amounts of nitric acid may be present in the ozone gas line. Wear proper safety equipment (gloves and eye protection) and avoid direct contact with any condensation in the line.

4C. Ozone Module Servicing - Refer to Figure 5

4C-1. Opening the Door

The DEL AOP 50 may be serviced without disconnecting any of the

4 MAINTENANCE & SERVICE

plumbing or wiring. Simply use a flat blade screwdriver to turn the door latches counter clockwise and open the door. Reverse the steps to securely close the door.

4C-2. Replacing an Ozone Module

1. Open the DEL AOP 50 as described in SECTION 4C-1.
2. Locate the ozone modules on the left wall of the enclosure.
3. Remove the filter cap assembly from the right tube fitting of the ozone module. Make sure you keep the cap and filter together.
4. While holding the ozone outlet manifold, gently pull the ozone module out of the manifold.
5. Unscrew the ozone module from the module bracket and remove the module assembly from the unit.
6. Install the new ozone module by reversing the above steps. Refer to Figure 5 for visual instruction.

4D. UV Reactor Service and Maintenance

4D-1 Lamp Removal

1. Locate the UV lamp access panel on the top of the DEL AOP 50, remove the 4 screws with a Phillips head screwdriver, and remove the panel.
2. After allowing adequate time for the lamps to cool, disconnect the lamp connectors from ballast wires.
3. Grasp the UV lamp wires and gently pull until the top of the UV lamp has pulled past the lamp retainer tabs.
4. By holding the UV lamp's white ceramic end, slowly pull the UV lamp until the bottom has pulled past the lamp retainer tabs. **DO NOT TOUCH THE UV LAMP GLASS WITH YOUR BARE HANDS.** Oils on your hands can cause hot spots on the UV lamp and shorten its life. Use a soft clean cotton cloth or clean cotton gloves to handle the UV lamp. Carefully place the UV lamp in a clean, dry, and safe location. Repeat this process for the other UV lamp.
5. If only servicing the UV lamps, skip to Section 4D-4.

4 MAINTENANCE & SERVICE

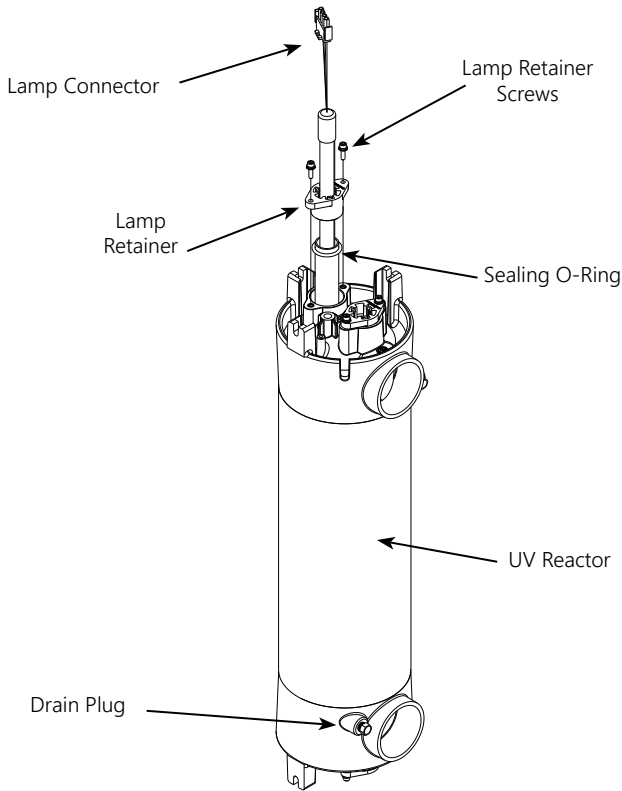


Figure 6: UV Reactor Subassembly

4D-2 Quartz Tube Removal and Cleaning

The UV lamps are housed in a quartz tube. If the quartz tube becomes dirty, its ability to transmit UV rays from the lamp will be diminished. The quartz tube(s) should be removed from the UV reactor every six (6) months and cleaned if necessary.

NOTE: For instructions on cleaning without mechanical disassembly, see Appendix D.

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NOTE: If the DEL AOP 50 is installed below water level, the bypass valves must all be CLOSED to prevent excess pool water from draining into the open unit when a quartz tube is removed.

1. Before continuing, allow adequate time for the quartz tubes to cool. Drain the water from the UV reactor by removing the drain plug and replacing it once water has stopped exiting the UV reactor.
2. After removing the lamps, remove the top lamp retainer screws using the hex key included in the parts bag. Place the lamp retainer screws, washers, and the lamp retainer aside in a safe place.
3. Using the hex key included in the parts bag, loosen the bottom lamp retainer screws two full rotations.
4. Grasp the quartz tube from the top of the UV reactor, and pull to remove it from the UV reactor.
5. Remove the sealing o-ring from the top of the quartz tube and set aside in a safe place. **NOTE:** o-rings in the bottom endcap of the reactor do not need to be removed for quartz tube service.
6. Clean the quartz tube exterior with a mild solution of muriatic acid (available at all pool supply stores) and water in a ratio of four parts water to one part acid (4:1).

⚠ CAUTION Follow the directions for use and handling of muriatic acid on the acid bottle label, being careful to protect your eyes, wear rubber gloves, and avoid breathing acid fumes.

NOTE: DO NOT USE ABRASIVE CLEANERS as they can scratch the high quality quartz glass. If lime or hardwater calcium deposits are encountered, use household tub and shower lime remover. After cleaning the quartz tube, wash it off and wipe dry. Inspect the quartz tube for cracks. Replace if cracks are found. Make sure the inside of the quartz tube is dry before replacing the UV lamp(s).

NOTE: DAMAGES CAUSED BY BROKEN QUARTZ TUBES ARE NOT COVERED UNDER WARRANTY.

4D-3 Quartz Tube Installation

1. While holding the quartz tube so it is oriented straight up and down, insert the quartz tube into the UV reactor until it is fully seated in the bottom of the UV reactor.

4 MAINTENANCE & SERVICE

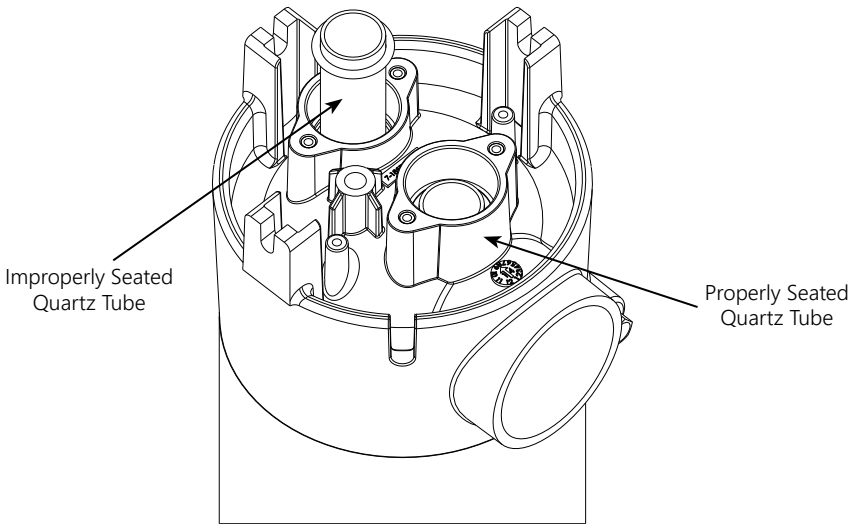


Figure 7: UV Quartz Tube Installation

Note: If the end of the quartz tube is protruding from the UV reactor, the alignment is off. Remove and re-insert the quartz tube to seat it properly as shown in Figure 7.

2. Place a sealing o-ring approximately 1/2in (12.7mm) from the end of the quartz tube protruding from the top of the UV reactor.
3. Place the lamp retainer over the quartz tube and using the hex key included in the parts bag, attach the lamp retainer to the UV reactor using the lamp retainer screws and washers as shown in Figure 6. Make sure the lamp retainer flanges are fully seated against the UV reactor.
 - a. Open isolation valves, if installed.
4. Turn the circulation pump ON and check the quartz tube seal for leaks.
5. Turn the circulation pump OFF once you have confirmed that the quartz tube is not leaking.

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4D-4 Re-installing the UV Lamp(s)

NOTE: Make sure to handle the UV lamp as described in SECTION 4D-1.

1. TURN OFF YOUR PUMP IF YOU HAVE NOT DONE SO.
2. Slowly press the UV lamp fully past the lamp retainer tabs and into the quartz tube until it is seated on the lamp cushion in the bottom of the tube.
3. Connect the lamp connector to the connector on the ballast.

ENVIRONMENTAL NOTICE: Hg-Lamp CONTAINS MERCURY.
Manage in accordance with disposal laws. See: www.lamprecycle.org

4E. Contact Information:

For Technical Assistance:

- Call: 1 (800) 733-9060
- Email: support@c-m-p.com
- Or visit our website: www.c-m-p.com

Be prepared with the following information:

- Name
- Address
- Model #
- Date Purchased

4F. Ordering Information:

To locate a dealer nearest you call 1 (800) 733-9060
or visit www.c-m-p.com.

4G. Standard Replacement Parts List

1. UV Lamp Kit (18 months)..... 9-1266-01
2. Ozone Gas Line (1 year)9-1087-01
3. Ozone Cell (5 years)..... 9-1636-01
4. Ozone Module Filter (1 year) 9-0858-01

NOTE: The warranty is void if the parts listed above are not replaced at recommended intervals.

5 TROUBLESHOOTING

5. Troubleshooting

Knowledge of electrical applications is required for trouble shooting. Contact a certified electrician if you are unsure of your ability to service the equipment. Improper servicing will void generator warranty. If any condition persists contact Technical Support (see SECTION 6A).

Symptom: Power indicator not lit when pool system is on.

1. No power to the DEL AOP 50 from the power source:
 - a. Check circuit breaker at the power distribution box.
 - b. Check for loose connections or wiring breaks in the lines leading to the terminal block.
 - c. Fuse in the unit has blown and needs to be replaced. Fuse is a 1 amp slow blow, 1/4" x 1.25" long, glass fuse.
 - d. The indicator light has burnt out.

Symptom: Flow indicator will not go out.

1. Insufficient flow through DEL AOP 50.
 - a. Verify that pump is running properly and that filter and skimmers are clean.
 - i. Isolation valves are open, if installed.
2. Clear any blockages in return line.
3. Flow switch has failed and needs to be replaced.
4. Flow switch relay has failed and needs to be replaced.

Symptom: Green ozone module light is not illuminated when unit is running.

1. This means that the power supply of that specific ozone module is no longer drawing power and needs to be replaced. Refer to SECTION 4C-2 for instructions on how to replace the corresponding ozone module.

Symptom: One or both the UV lamps are not lit when unit is running.

1. Check lamp connector plug for complete connection.
2. Water fouling has shorted lamp connections.
3. Bad UV lamp.
4. Bad ballast.

Diagram 1: Pool Only

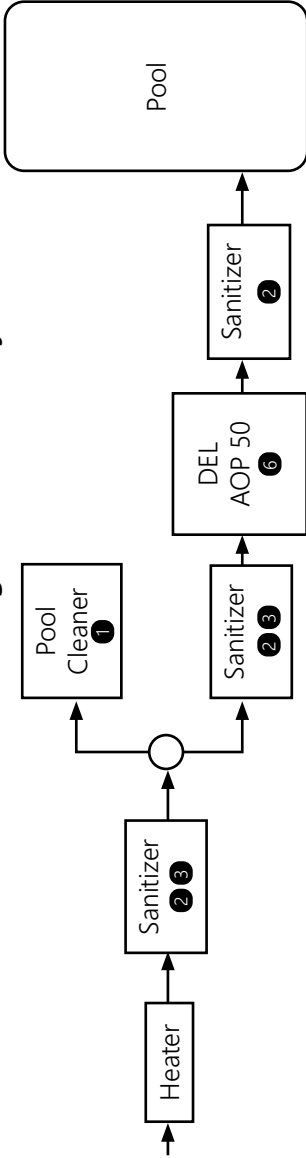
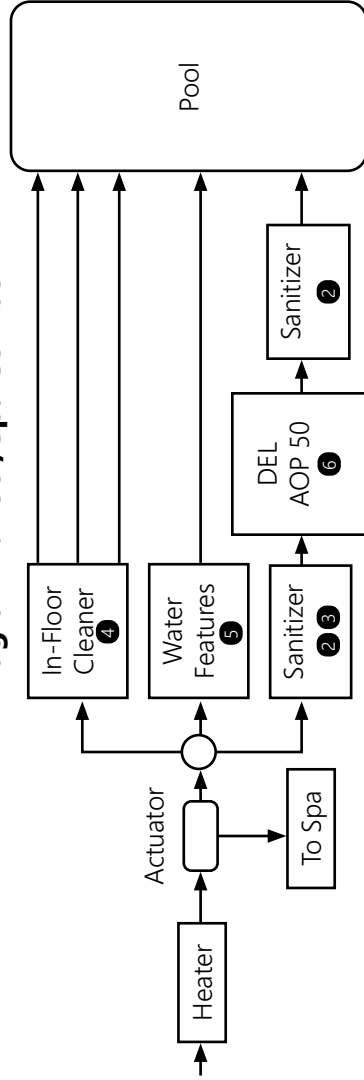


Diagram 2: Pool/Spa Combo



DEL AOP 50 Installation - Plumbing

Refer to Diagrams 1 and 2

The DEL AOP 50 works under vacuum. The injector in the DEL AOP 50 draws the ozone/air gas mixture from the ozone cells and mixes it into the water leaving behind some un-dissolved gas bubbles. These bubbles can affect certain pool system components, so care must be taken when installing the DEL AOP 50.

The diagrams below cover common plumbing configurations. For other configurations or installation questions, please call Technical Support at 1 (800) 733-9060, or email: support@c-m-p.com

- 1. Pool Cleaners:** (i.e. Polaris 360): Always plumb the cleaner t-fitting before the DEL AOP 50 to prevent gas from affecting the operation of the cleaner.
- 2. Salt Chlorinator:** A salt chlorinator may be plumbed on either side of the DEL AOP 50.
- 3. Chlorine Tab/Mineral Erosion Feeder:** Always plumb the DEL AOP 50 after any erosion feeder to avoid gas accumulating in the feeder.
- 4. In-Floor Cleaning System:** The DEL AOP 50 must be on a different pool return leg than any in-floor cleaning system to avoid excess back pressure on the DEL AOP 50. This will also prevent gas intrusion and high oxidizer levels in zone valve and cleaner heads.
- 5. Water Features:** Avoid plumbing the DEL AOP 50 into any leg with excessive back pressure such as those going to fountains, restrictive wall fittings, etc.
- 6. DEL AOP 50:** Back pressure on the DEL AOP 50 must be minimal.

APPENDIX B

DEL Service Instructions: DEL AOP 50 Ozone Cell Cleaning

NOTE: This procedure requires DEL kit 9-1356-01 and acetone solvent.



WARNING Disconnect power to the DEL AOP 50 before performing any service.

Ozone Cell Cleaning: Refer to Figures 1 and 2

- Open or remove the DEL AOP 50 cover.
- Firmly pull on the ozone outlet manifold to disconnect it from each ozone cell. It does not need to be removed from the system. Carefully prop it or lay it aside inside the enclosure.



CAUTION Trace amounts of mild nitric acid may be present in the ozone outlet manifold and tubing. Handle plumbing carefully and wear proper protective equipment.

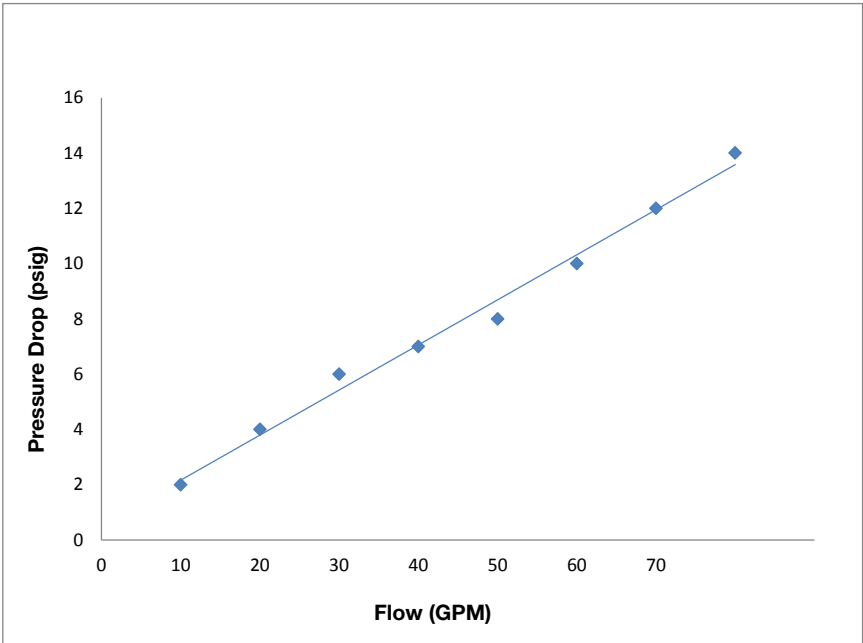
- Remove each of the air inlet filters from the ozone generator assembly.
- A syringe and tubing is provided with the cleaning kit. Connect the tubing to one barb of the ozone cell and run it to a suitable recovery container (glass, ceramic or metal is ideal).
- Place the tip of the syringe firmly into the opposite ozone cell barb while supporting the cell with the other hand. Slowly push the acetone through the cell and tubing into the recovery container. Flush each cell with approximately 12 mL of acetone (equal to about a 1.5" inch length in the syringe provided).



WARNING Acetone is flammable. Follow safety and handling instructions on the container.

- Once all cells have been flushed, allow several minutes for excess acetone to evaporate then reattach the ozone manifold and air inlet Filters.
- Leave the DEL AOP 50 disconnected and run the pool circulation system. Allow fresh air to be pulled through the cells for 10 minutes.
- Close or reattach the DEL AOP 50 cover and reconnect power.

APPENDIX C

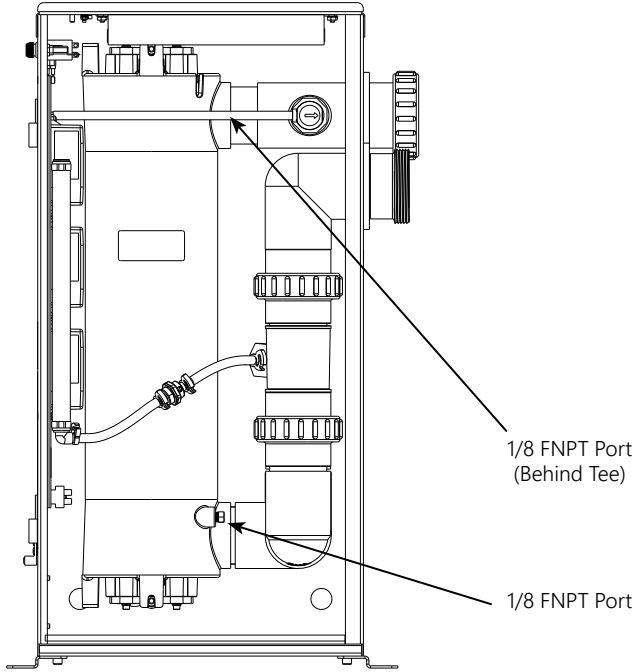


Data source: 20140507_Solar Eclipse Back Pressure vs Flow.xlsx

DEL AOP 50 Pressure Drop Characterization

NOTE:

Tested on simulated recirculation system using a 3HP variable speed pump. No back pressure added. Back pressure will raise the inlet pressure (filter pressure) but reduce the pressure drop slightly. Actual results will vary depending on pump and plumbing variables.



In-Place Quartz Tube Cleaning

The DEL AOP 50 quartz tubes may be cleaned without removing them from the vessel. Ensure that the DEL AOP 50 is isolated from the rest of the pool system with valves at the inlet and outlet (as shown in Figure 3). Use the 1/8" FNPT ports at the top and bottom of the vessel to connect the cleaning system. Flow the cleaning solution from bottom to top. When cleaning is complete, drain the DEL AOP 50 completely from the bottom port and run the pool system immediately for an extended period to fully rinse the internal components. Special considerations may apply depending on the cleaning system. Contact Customer Service if there is any question about compatibility with the DEL AOP 50 components.

SAVE THESE INSTRUCTIONS

Record Information on this System Below & Keep for Your Records

Installer _____

System Purchased From _____

Installation Date _____

Serial Number _____

Model Number _____

CMP Customer Service & Tech Support

Toll Free: 1-800-733-9060

FAX: 770-632-7115

support@c-m-p.com

Warranty Questions

RMA@c-m-p.com

CMP, LLC
36 HERRING ROAD, NEWNAN, GA 30265
WWW.C-M-P.COM/DEL

0821AB