

Pro Series Ozone System

USER MANUAL



It is the installer's responsibility to read, understand, and comply with these instructions. Electrical connections should be performed by a licensed electrician.

A Guide to Your Pro Series

Progressive Pump & Treatment Pro Series ozone generators are robust commercial systems that produce up to 30 grams of ozone per hour. They use venturi side stream injection for precise dosing and maximum output. The Pro Series generators can be used indoors or outdoors, integrated with other systems, and are ideal for treating reclaimed water.

Ozone is an eco-friendly, natural molecule that dissipates in 20 to 40 minutes. The Pro Series improves water quality by killing bacteria, viruses, and parasites, enhancing taste, removing odor, and oxidizing trace metals, all without chemicals.

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1. FEATURES/COMPONENTS

- Complete system including air compressor, oxygen concentrator, ozone generation chambers, venturi injection assembly, and all associated hardware
- Adjustable ozone function
- Power and ozone on indicator lights
- Remote PLC control options
- Includes cooling fans, exhaust fans, and water separator
- High frequency solid state power supply with built-in power surge protection
- Power supply shutdown for over temperature or loss of high voltage
- Ozone generator operation may be controlled via low current relay input
- Environmentally sealed panel components

2. SPECIFICATIONS

	ProGen 10K	ProGen + 20K	ProGen Max 30K
Ozone output (under ideal conditions)	> 10 grams/hr (0.75 lbs/day)	> 20 grams/hr (1.05 lbs/day)	> 30 grams/hr (1.58 lbs/day)
Ozone tubing	1/4" tubing barb fitting		
Input voltage	120VAC		
Operating current	5A	8A	9A
Oxygen concentrator	Filtered clean dry oxygen at < -40°C dew point at up to 34 SCFH		
Dimensions	24.0"H x 20.0"W x 9.0"D	31.5"H x 24.0"W x 10.25"D	31.5"H x 24.0"W x 10.25"D
Venturi system	Included		

3. INSTALLATION

Mounting

- The unit must be mounted vertically. The ideal location is protected from rain and snow and not in direct sunlight.
- All four mounting flanges on the unit must be used, identify a wall near the ozone injection point and secure with 1/4" screws into masonry, studs, or heavy wall anchors.
- Ensure the air intake on the bottom of the unit is unobstructed and dry.

Electrical

- The Pro Series requires a power supply of 120 VAC 10A for the ozone generator. Units that are ordered as part of a larger assembly are hardwired at the factory to a disconnect box. Standalone units include standard outlet receptacle plugs.
- If adding a PLC for ozone control, turn the remote switch located on the front door to ON. Wire the 120 VAC outputs to the last black and white terminal block on the far right on the bottom of the terminal blocks.
- If external or remote start and stop is not required, on the unit door turn the main power switch to ON or OFF to power the system.

Ozone Output (Tubing)

Use ozone compatible 1/4" ID tubing (not included). FEP tubing is recommended as it is completely ozone resistant.

4. SYSTEM OPERATION

Safety

Electrical connections should be performed by a licensed electrician. In the unlikely event that the generator experiences over-heating and/or a high voltage failure, the protection circuits will disable the high voltage generator without harm to the unit. If this happens, the visual indicator "high voltage" will go off. A 5 amp, slow blow fuse is provided on the panel, within the enclosure. All electrical components are UL approved where applicable.



DANGER: The Pro Series internally generates extremely high voltage for the corona discharge process and should never be accessed while in use or serviced by unqualified personnel. This system includes an oxygen concentrator. Concentrated oxygen is highly flammable, do not allow smoking or flames within 50' of the ozone system.

Start Up

Verify all electrical and plumbing connections are completed and secure. If using an injector, start the water flow before the ozone unit and verify by gentle touch that there is suction through the injection orifice. Turn on the main power switch and verify the "power on" and "ozone on" indicator lights are illuminated.

Operation

Adjusting the flow meter

The unit is shipped with the flow meter set to 6 SCFH which is the optimal ozone generation point. Certain applications may require more or less airflow, contact technical support for assistance for your specific application.

Adjusting the ozone

The units ship with the ozone set to 100%. The ozone adjustment knob on the front of the panel provides 0 to 100% adjustment. The volume of air will not change but the ozone concentration will decrease. Many applications use a timer to cycle the unit on and off and effectively control the average ozone production.

Maintenance

Periodically inspect the intake filters and rinse clean as necessary.

5. TROUBLESHOOTING

Issue	Solution
Electrical:	
Master switch is on but nothing is working	Verify “power on” indicator is illuminated - if not, check the incoming power supply. If the incoming power supply is functioning correctly, but the “power on” indicator is off, replace the 5A slow blow fuse. If the fuse blows again, there is likely a shorted connection within the unit. Discontinue use immediately and contact technical support.
Issue	Solution
“Power On” indicator is lit, but “Ozone On” is not lit	This typically indicates that the ozone generation chamber or board has failed and must be replaced. Discontinue use immediately and contact technical support to coordinate a repair.
Air/Ozone Flow:	
Unit is running but there is no airflow on the flow meter	Check downstream tubing for blockage. Inspect injector for obstructions. If no resolution, discontinue use and contact technical support.
No ozone production	Discontinue use and contact technical support.

6. REPAIR

It is highly recommended that Progressive Pump & Treatment Pro Series ozone systems are serviced only by the manufacturer. Please contact customer service for a ticket number and assistance before shipping the unit.

7. WARRANTY

Progressive Pump & Treatment Pro Series systems come with a 1-year limited warranty to be free from manufacturer’s defects. The warranty covers workmanship and materials and is limited to the individual product only, incidental damage to other property is not covered. Repair or replacement of the defective component is at our discretion and may be with a factory reconditioned unit. Incorrect handling, installation, or operation will void the warranty. Any repairs performed by unauthorized personnel along with misuse, foreign objects, modifications, or neglect are not covered. Warranty requires proof of purchase. Contact us for warranty service and specific return instructions, all return shipments must have

a case number on the outside of the packaging and ship prepaid. If no warranty issue is discovered, customer is responsible for return shipping. Please refer to RainHarvest Systems terms and conditions of sale for applicable details and restrictions.

