

promolife O₃ELITE OPERATING MANUAL

FOR O3ELITE SINGLE, MINI AND DUAL MODELS



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Ozone Definitions

1 Gamma = 1ug (microgram)/ml = 1g/L = 1g/m3
1LPM=1000 cc/min = 1000 ml/min
Total volume in ml = flow (cc/min) x time (min)
Total Ozone = Total Volume (ml) x Ozone Concentration (ug/ml)

Contact Us

If you have any questions, contact Promolife at:
888-742-3404 or 479-442-3404 | support@promolife.com
or visit www.promolife.com/support other options.

For video tutorials please visit:
www.promolife.com/videos

Quick start guide for operation

- Turn on oxygen source first (30 seconds for tanks, five minutes for concentrators)
- Turn on ozone generator to desired setting
- When done, turn off the ozone generator
- Wait 30 seconds and turn off the oxygen source

Things to know about ozone

- Heat degrades the strength of ozone
- Humidity degrades the strength of ozone

Both factors affect ozone output. You should use your ozone generator at room temperature and not put it in direct sunlight. Always use clean oxygen, either from an O2 concentrator or an O2 tank while using the ozone generator. Never use ambient air, as dust and humidity may enter the ozone generator and compromise the unit. Ambient air use will void the warranty.

Ozone strength will always be greater when using a high-quality oxygen source, as ozone output directly relates to the concentration of oxygen entering the ozone generator.

An oxygen concentrator uses a compressor to separate and purify the oxygen and operates at 90% - 95% pure oxygen. An oxygen tank uses oxygen that was created by cooling oxygen to a liquid and separating out all the impurities, resulting in 99% pure oxygen.

Another factor in ozone output is oxygen flow speed. The slower the oxygen flow, the stronger the ozone output. This is because ozone generators rely on contact time with oxygen. The longer the oxygen can stay in contact with the ozone generator, the stronger the ozone output will be.

About the O3Elite Ozone Generator Series

The O3Elite is a dual or single cell ozone generator designed for performance and efficiency. All models are made in the United States, including the ceramic stainless ozone cells. It comes in a thick aluminum case with 316 grade stainless steel Luer lock fittings. These allow the user to securely connect tubing to the ozone generator, eliminating any chance of the tubing becoming loose or falling off.

Wall mount holes have been added to the Dual and Single to allow the user to place the ozonator on a flat surface or attach it to the wall.

The Ozone Cell

The O3Elite utilizes pulse modulated ceramic stainless cells, which produce stable ozone concentration levels and virtually no heat. This results in a stronger, more efficient ozone production with maximum output and minimum high voltage input. No cooling fan is required which keeps the ozone generator cleaner and increases the life of the machine. The cells produce very little noise which is a result of efficient ozone production. The lower the noise, the more efficient the ozone generation.

Wall mounts

The O3Elite Mini is designed to sit on a table. The O3Elite Dual and Single come standard with wall mount holes located on the bottom of the ozone generator, and can therefore be used on a table or hanging from the wall. All dials and tube connections are located in easy to see and accessible locations. Mounting screws are not provided.

Operating conditions

The generator is designed to run with a pure oxygen source. This eliminates any contaminants from being produced that may enter or harm the ozone generator. **Do not exceed 50 psi** when using an oxygen tank. Using psi greater than 50 will result in a voided warranty.

Operating Environment

It is important to set up equipment in an area that is free of airborne moisture and particles. Set up in an area that is free of airborne moisture and particles. Dust particles and condensation pose a challenge to the consistent operation of all ozone generators. Make sure the ozone generator stays clean and dry.

Safety

Please read the following safety guidelines thoroughly before attempting to operate or install your equipment.

- As with all electric devices, this equipment should never come in contact with water.

- The equipment must be operated using a properly grounded electrical circuit that is protected by either a fuse or circuit breaker.
- Promolife, Inc. assumes no liability for damages or injuries incurred by misuse of this product.
- Use a power conditioner if line voltage fluctuates outside of specified range.

Power requirements

The O3Elite offers a standard AC to DC wall transformer which can be used with voltages ranging from 100 to 240 volts. This gives the O3Elite the ability to be used internationally without a step-down transformer; however, please note that a plug adapter will likely be necessary for international use (included with international orders).

- Voltage 12 VDC
- Power: Mini and Single [800ma]; Dual [800ma with one cell or 1600ma with both]

Attaching the tubing to the O3Elite

The ozone generator has female Luer Lock connectors while the tubing has male Luer Lock connectors. These connectors are designed to work together. Attach the male Luer lock with tubing attached directly to the female Luer lock and turn clockwise. This will lock the tubing in place for quick, easy use. To disconnect the tubing turn the male Luer lock counter clockwise.



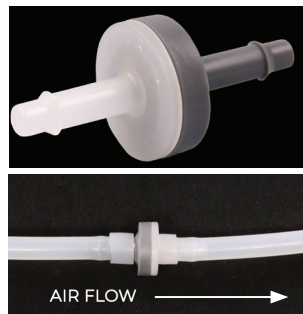
MALE

Ozone check valve

Promolife provides an ozone check valve with each ozone generator. The ozone check valve should always be used when water is being used, as it can help prevent backflow issues. Using the ozone generator with water or oil and without the ozone check valve will void the warranty. On new units the check valve comes already attached to your silicone tubing.

Note: We recommend replacing check valves every six months. If the check valve comes in contact with oil, replace it immediately.

To install a new check valve, blow into the check valve to determine which side the air comes out. That side should be attached to the ozone tubing that connects to your ozone accessories. The side where air does not come out should be attached to the ozone tubing that is connected to your ozone generator.



How to Operate

Before turning on the ozone generator make sure all the tubing is connected. The O3Elite Dual has two ozone cells which are controlled individually with each dial. The dial on the left hand side operates cell one; the dial on the right hand side operates cell two. Each dial has five different settings which allow you to customize your ozone output. The O3Elite Single has one dial with eight different settings to customize the output. Many ozone outputs are available by combining the dial setting with your oxygen setting. The Mini has no dial; the output is controlled by oxygen output.

On the top of each Dual and Single there are two markings: Oxygen In & Ozone Out. The Mini has an Oxygen In on the back and an Ozone Out on the front. This is where you will connect your tubing.



Connect the clear plastic tubing to your oxygen source. Attach the other end with the luer lock to the Oxygen In connection of the ozone generator. Next attach the opaque/hazy silicone tubing with the luer lock to the Ozone Out connection of the ozone generator.



The other end of the ozone tubing can now be connected to your chosen application.

O3Elite Mini Examples



With 870 Tank and Syringe

With 540 Tank and Cup

With 540 Tank and Bag

Turning on your oxygen source

It is important to turn your oxygen source on before the ozone generator.

For tanks, turn on the flow for at least 30 seconds.

For an oxygen concentrator, run the concentrator for five minutes before turning on your ozone generator, as it can take several minutes for the concentrator to reach its maximum purity level. Turning on the ozone generator before high purity oxygen is flowing can lead to nitrous oxides in your ozone. **DO NOT** use the humidifier that came with your concentrator. Hook your tubing directly to the concentrator's output fitting.

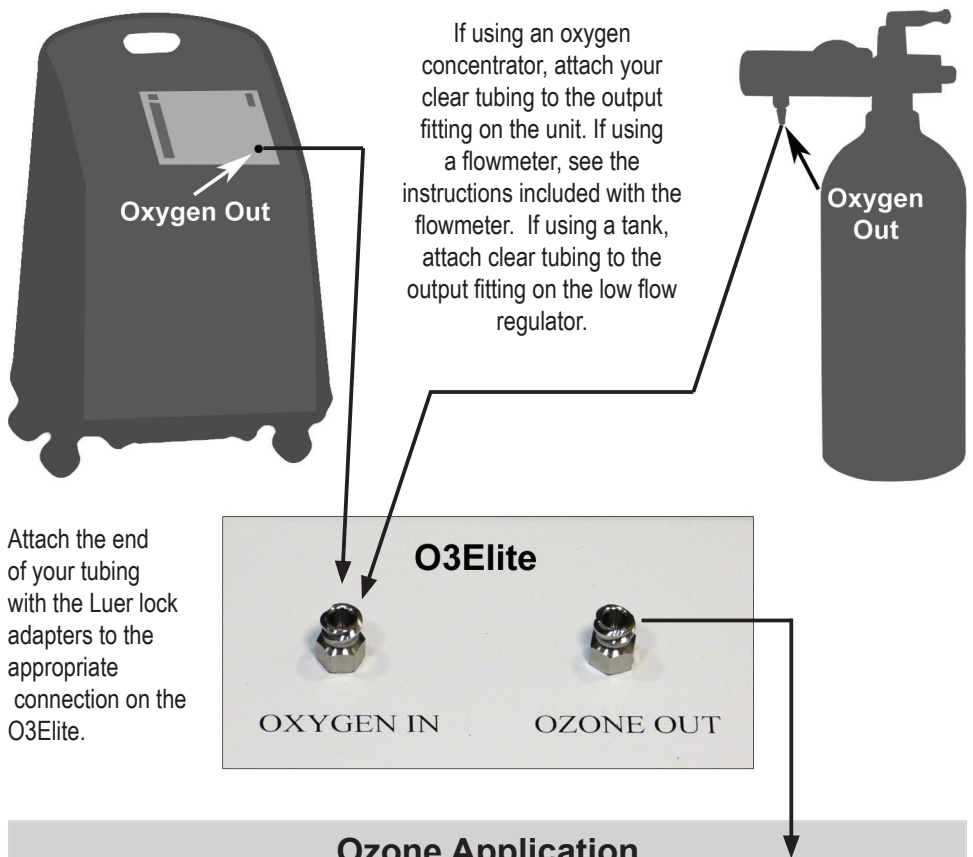
See the diagram on the next page for more.

How to turn on the O3Elite

Now you are ready to turn on the ozone generator. The dial(s) on the generator should be in the off position.

On the Dual model there are five settings on each dial, with one being the lowest and five being the highest.

Oxygen Source Options



Ozone Application

Sauna, Bag, Humidifier, Water Bubbler, Oil Bubbler, Ozone Destruct System, etc.

Example attachment between O3Elite Dual and Ozone Humidifier



On the Single model there are eight settings on the dial with one being lowest and eight being the highest. When a cell is turned on the appropriate light will also turn on.

The O3Elite Mini has a single power button that lights up when on.

To adjust your settings to produce the ozone output you want, see the relevant ozone output chart on the following pages.

The proper way to turn off your ozone generator

After you are done using the O3Elite, turn the ozone generator off first. Wait at least 30 seconds and then turn off your oxygen source. This will allow the ozone cells and tubing to flush out, increasing the life span of all of the parts. **Unhook all tubing when not in use.**

Warranty

Promolife offers a lifetime warranty on the O3Elite ozone generator to be free from defects in parts and workmanship under conditions of normal use. Warranty is void if the unit has been tampered with, the cover is removed, water or any other liquid material or dirt or extensive dust is found in the unit. Promolife, Inc. will perform repairs or replace equipment, at their discretion. The warranty shall be null, void, and non binding upon Promolife if Promolife determines the cause of malfunction to be misuse. Promolife is not liable to the purchaser or other users for loss of use of the generator or for other special, indirect, incidental or consequential damages. Promolife is not liable for any special, indirect, incidental or consequential damages that result from the misuse or malfunction of the ozone generator and/or any of its components.

Free Calibration Service

If for any reason you feel as if your ozone generator is not operating properly, please contact Promolife to find out about our free calibration warranty.

Disclaimer: This unit is for recreational and experimental use only.

O3Elite Single Output Chart

O2 LPM	Ozone Generator Dial Setting							
	1	2	3	4	5	6	7	8
1	2	4	5	6	7	8	9	10
3/4	3	5	7	9	11	13	15	17
1/2	4	7	9	11	14	16	17	19
1/4	9	14	18	22	25	29	31	33
1/8	18	29	33	41	44	46	50	52
1/16	30	37	42	48	54	56	58	63
1/32	36	42	44	51	57	62	66	70

How to use this chart: Determine how many gammas of ozone you want to produce. Find that number in the chart. Set your oxygen to the LPM setting on the left and your O3Elite dial to the setting above. Example: To produce 18 gamma, you can use 1/4 LPM of oxygen and turn your ozone dial to 3. To produce 50 gamma, you could use 1/8 LPM of oxygen and turn your ozone dial to 7. Note: Gamma = ug/ml

O3Elite Dual Output Chart

O2 LPM	Dial One Only					Both Dials				
	1	2	3	4	5	5,1	5,2	5,3	5,4	5,5
1	1	3	5	7	8	11	13	15	17	18
3/4	2	4	7	9	10	14	16	18	20	21
1/2	4	8	11	13	15	19	22	26	30	33
1/4	7	13	18	23	26	32	37	42	47	53
1/8	12	24	33	40	45	51	60	68	70	75
1/16	21	40	49	55	59	73	81	85	90	95
1/32	30	52	65	71	78	88	95	101	106	110

How to use this chart: Determine how many gammas of ozone you want to produce. Find that number in the chart. Set your oxygen to the LPM setting on the left and your O3Elite dial to the setting above. Example: To produce 26 gamma, you can use 1/4 LPM of oxygen and turn dial 1 to 5. To produce 70 gamma, you could use 1/8 LPM of oxygen and turn dial 1 to 5 and dial 2 to 4. Note: Gamma = ug/ml

O3Elite Mini Output Chart

OXYGEN FLOW RATE	OZONE OUTPUT	
1 LPM	7	Low
3/4 LPM	9	Medium
1/2 LPM	13	
1/4 LPM	25	
1/8 LPM	38	High
1/16 LPM	52	
1/32 LPM	65	

To use, determine the amount of ozone you want to produce under Ozone Output. Set your oxygen source to the LPM setting specified under Oxygen Flow. Once oxygen is running at the specified LPM, turn on the O3Elite Mini to achieve your desired output.

Ozone Packages Manual

If you have a complete ozone package, you can download our manual using the QR code at right, or visit www.promolife.com/promolife-guides/



Notes

Serial # _____

Date Purchased _____



Certificate and Declaration of Conformity

Promolife, Inc. 1220 S Happy Hollow Rd, Fayetteville, AR 72701. 1-479-442-3404. tobias@promolife.com

Promolife, Inc declares under their sole responsibility that their O3Elite Mini, O3Elite Single, and O3Elite Dual comply with the Essential Requirements of the following EU Directives: Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, and RoHS 2 Directive 2011/65/EU, and further conform with the following EU Harmonized Standards: EN 60335-1:2012+A13:2017, EN 1278:2010, EN 61000-6-3:2007+A1:2011, and EN 61000-6-1:2007.

Dated: 19 April 2022

Position of Signatory: Operations Manager Name of Signatory: Tobias Segal Signed below on behalf of Promolife Inc.