



## OPERATING MANUAL



### FOR THE O3ARC AND O3ARC PLUS

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Ozone Definitions

1 Gamma = 1ug (microgram)/ml = 1g/L = 1g/c3

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)

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Visit [www.promolife.com/support](http://www.promolife.com/support) to schedule a setup or support call, or contact us through chat, email or phone.

The importance of our quick start procedure

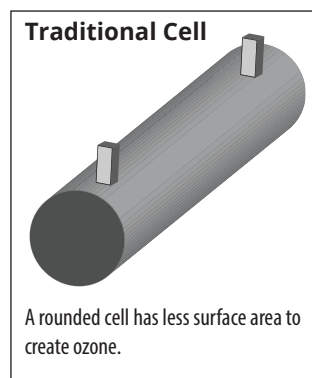
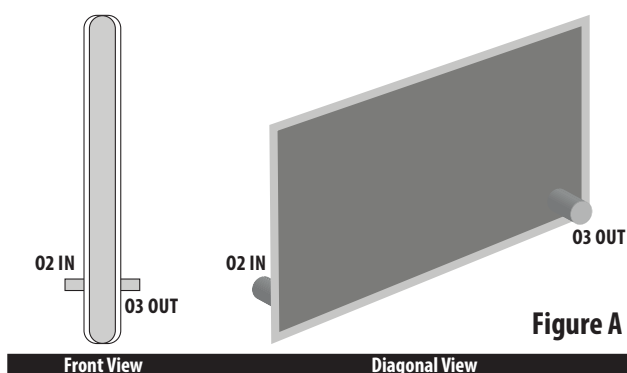
The Quick Start Guide is on page 4. We recommend this procedure because, when you first turn on an ozone generator, the ozone cell is at room temperature. As you run the unit the cell begins to warm up to operating temperature. Once the ozone cell warms up the unit begins to produce ozone at the optimal levels. This takes roughly two minutes at Power setting 10. After warmup, you can freely adjust the ozone concentration and it will maintain that concentration until the ozone generator is powered off.

## About the O3Arc Ozone Generator

Thank you for purchasing the O3Arc Ozone Generator. This unit produces ultra stable and ultra pure ozone concentrations which are ideal for all forms of ozone therapy.

### Ultra Stable Ozone

The O3Arc uses a new type of ozone production cell. Instead of the standard tube style, we have flattened the tube to create additional surface area for heat dissipation [Figure A]. This results in ultra stable ozone outputs. Ceramic is a superior material because it is highly efficient at heat dissipation. Most ozone generators have fluctuating ozone outputs, especially at lower flow rates. This is because the heat dispersion is not designed to handle lower flows. By flattening the cell, the surface area is more than doubled, which provides much more stable ozone production.



### Ultra Pure Ozone

Like our O3Elite ozone generators, the O3Arc utilizes alumina oxide ceramic as the dielectric. Ceramic dielectrics are placed on both sides of the ozone cell to provide contaminate-free ozone. In addition to the ozone cell, high grade Teflon tubing is used to transport the ozone out of the cell. 316 stainless steel fittings are also used to ensure the ozone produced is free from any contaminants or byproducts.

This ozone generator cell has been tested for the creation of harmful byproducts and all test results showed nothing but ultra pure ozone.

## Quick start guide for most accurate ozone output

For detailed instructions, see the next page.

1. Set your oxygen source to 1/4 LPM. Set O3Arc Power to P-10. Run for two minutes to prepare generator for use or testing. For why we recommend this, see the back of this manual.
2. After two minutes, you may adjust the oxygen and Power settings to reach your chosen concentration.
3. When session is complete, turn off the ozone generator.
4. Wait 15-30 seconds to purge ozone from the lines, then turn off the oxygen.
5. If the ozone generator is hooked up to a bubbler, make sure the generator is higher than the bubbler and the check valve is installed.

## Safety

Please read the following safety guidelines thoroughly before attempting to use your equipment.

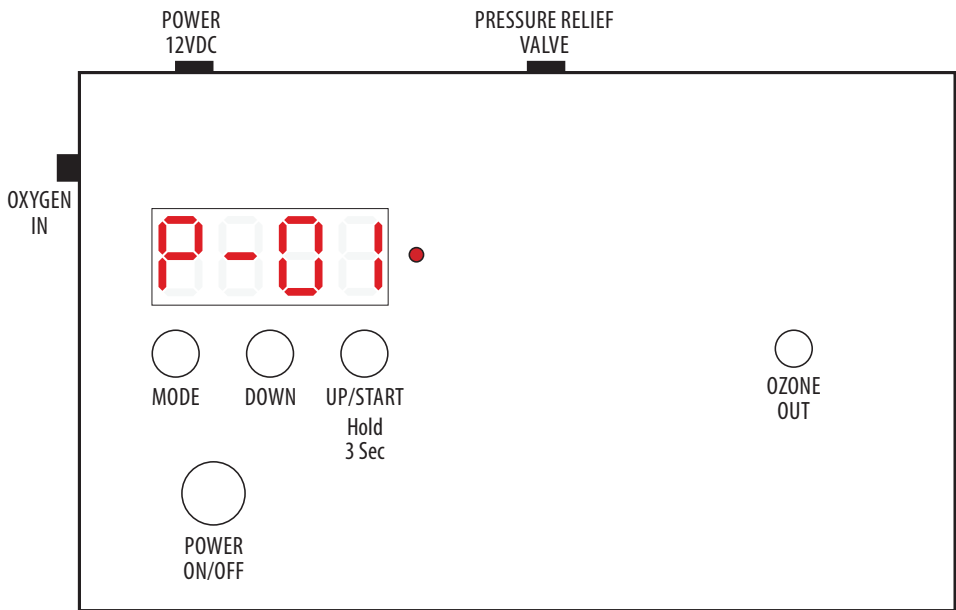
- ☐ As with all electric devices, this equipment should never be allowed to come in contact with water.
- ☐ Only qualified personnel should be allowed to set up, maintain, and operate this equipment.
- ☐ The equipment must be operated using a properly grounded electrical circuit that is protected by either a fuse or circuit breaker.
- ☐ Promolife, Inc. assumed no liability for damages or injuries incurred by misuse of this product.

## There are two versions of this ozone generator.

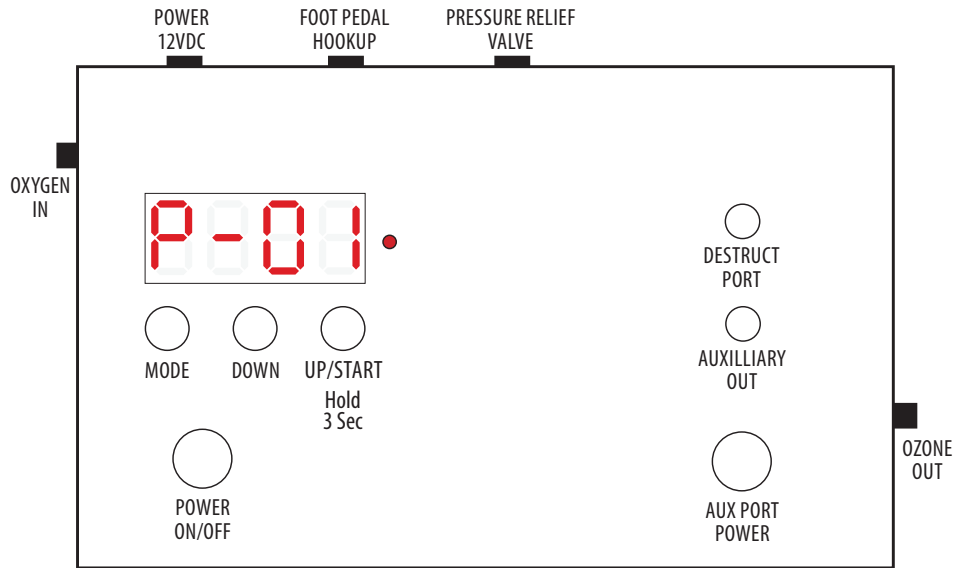
**O3Arc Standard** - This is a digital ozone generator with a built-in display that allows the user to digitally control the ozone output and set a countdown timer that will turn off ozone production after a chosen time. [Figure B]

**O3Arc Plus** - This digital ozone generator functions the same as the Standard, with the addition of an AUX port for secondary ozone access and a destruct port. The AUX port can be operated by the AUX power button or a foot switch. [Figure C]

The Standard Model - Figure B



The Plus Model - Figure C

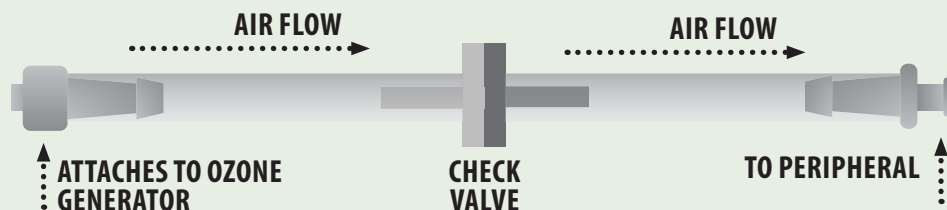


## Attaching tubing

The ozone generator has female Luer Lock connectors for the Oxygen In, Ozone Out, and Aux Out ports. These are designed to be used with tubing that has a male Luer lock on one side. Attach the male Luer Lock with tubing attached to the female Luer Lock and turn clockwise. This will lock the tubing in place. To disconnect the tubing, turn the male Luer Lock counter-clockwise.

### If you are ozonating water or oil:

Promolife provides an ozone check valve with each ozone generator. The ozone check valve should always be used when water or oil 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.



## 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 15-30 seconds. For an oxygen concentrator, run the concentrator for five minutes before turning on your ozone generator. Concentrators take several minutes to reach maximum purity levels.

**Note:** When powering the O3Arc Plus for the first time you will sometimes notice a delayed start. This is because the O3Arc plus has an internal solenoid valve that is magnetically operated that needs to be charged before operating. The solenoid valve allows the ozone gas to change directions with a push of the button. This is a normal occurrence and can be expected from time to time.

## How to operate

To power on the ozone generator, press the On/Off power button. This will illuminate the screen default to Power Adjustment Mode. [see below]



MODE



DOWN



UP/START

☐ To increase ozone output, press the Up/Start button.

☐ To lower the output, press the Down button.

☐ To start ozone production, press the Up/Start button for three seconds. A blue light will illuminate indicating ozone is being produced.

Once the Up/Start button has been pressed for three seconds and ozone has started, you can freely increase or decrease the ozone concentration.

**Setting the Timer:** If the timer is not used, ozone will flow continuously. To set the timer, first select your ozone output, then press the Mode button. This will switch to Timer Mode.



MODE



DOWN



UP/START

☐ To increase time, press the Up/Start button.

☐ To lower the time, press the Down button.

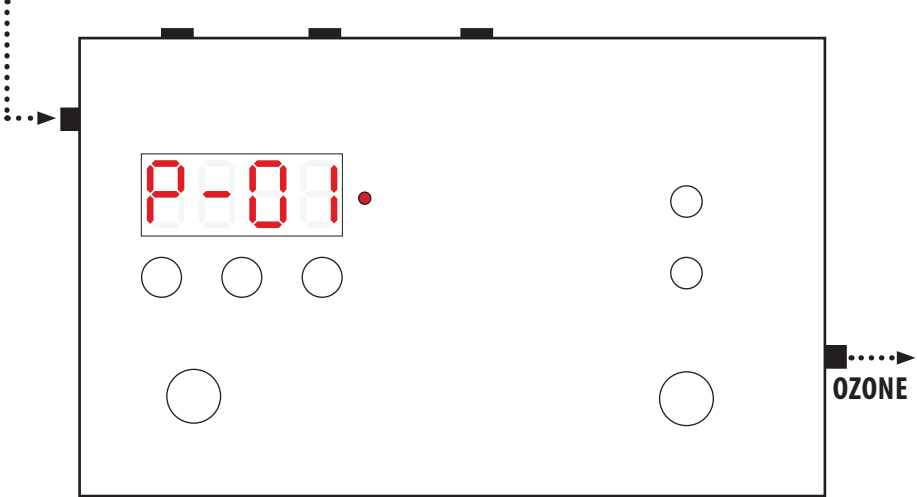
☐ To start ozone production, press the Up/Start button for three seconds. A blue light will illuminate indicating ozone is being produced and the timer will start.

**NOTE:** Once the output and timer are set and ozone is flowing, you can still change your settings. Push the Mode button to change modes if needed and make adjustments as usual. Once the Mode button is pushed, ozone flow will stop. When you've made the necessary changes, hold the Up/Set button for three seconds to lock in your new settings. Ozone flow will start again.

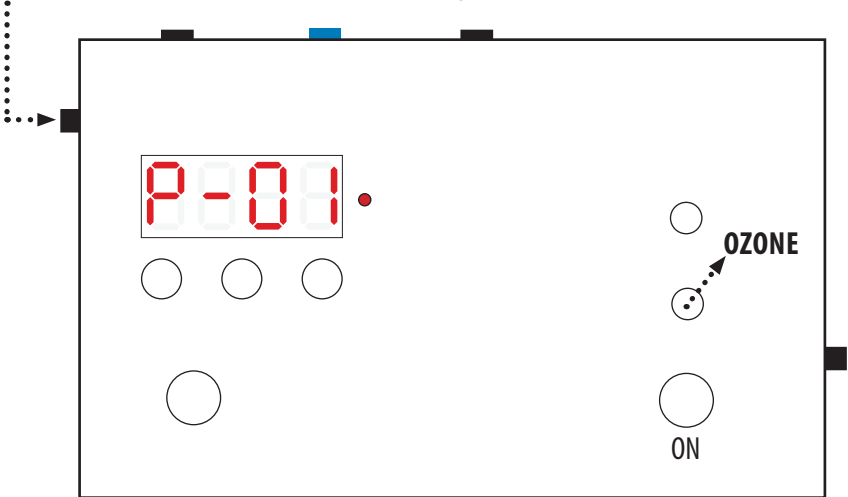
# Ozone Destruct System and Auxiliary Port

There are multiple important uses for the built-in ozone destruct port of the O3Arc Plus. You can use these to fill syringes, with a dental handpiece, for timed ozone shutoff, and more.

**OXYGEN** When the auxilliary port is **off**, ozone exits through the side port. **Figure D**



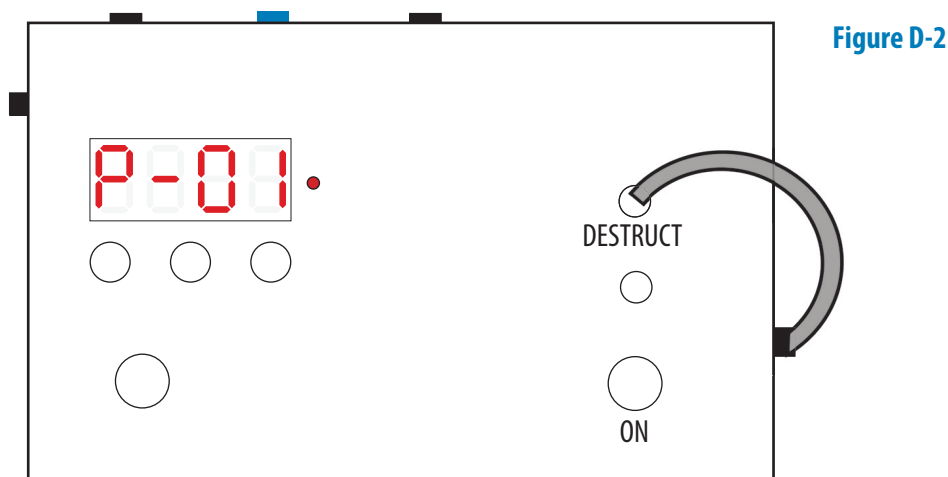
**OXYGEN** When the auxilliary port is **on**, either through a foot switch or Aux Power button, ozone exits the AUX port.



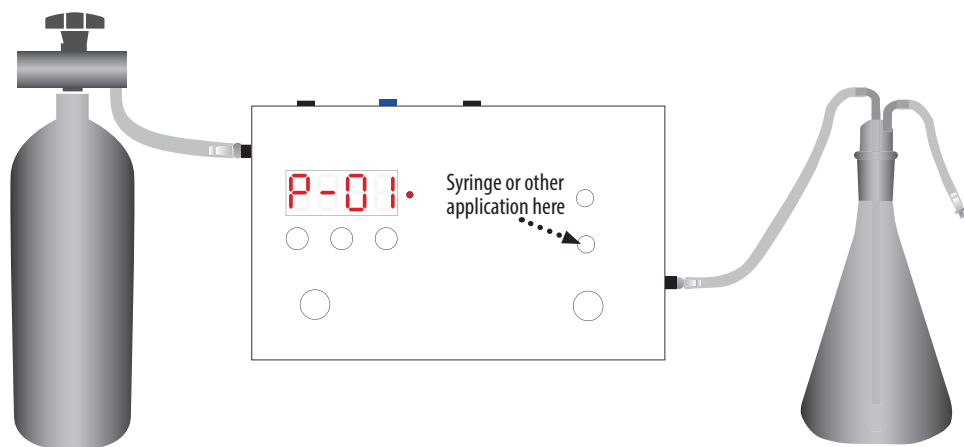


1. **Syringe dumping port:** When filling syringes, in order to sterilize the barrel, you can fill the syringe with ozone, then attach the syringe to the destruct port and push the ozone out. This keeps that ozone from entering the room.

2. **Auxiliary port access:** When using the auxiliary port, the ozone machine needs to be actively running and producing ozone. This will be indicated by the blue light on the right side of the digital display. To eliminate excess ozone from flowing into the room, simply link the destruct port to the ozone out port on the right side of the ozone generator [See Figure D and D-2]. This will prevent excess ozone from entering the room. You can also connect an external destruct [Figure E].



### O3Arc Plus Setup - Figure E



## Turning off your oxygen source

After you are done using the O3Arc, turn the ozone generator off first. Wait at least 15 to 30 seconds and then turn off your oxygen source. This will allow the ozone cell and tubing to flush out any remaining ozone, which will increase the lifespan of all the parts.

**Unhook all tubing from the ozone generator when not in use.**

## Ozone Gamma Chart

An ozone gamma chart is included in your package. Please refer to this chart to set your concentration.

To set your ozone output, choose the gamma (ug/ml) concentration you desire. Set your oxygen regulator to the matching LPM in the left hand column. Then set the Power setting on your O3Arc to the matching Power Mode number in the top column.

## Additional Information

**Operating conditions:** The ozone generator is designed to run with either an oxygen concentrator or an oxygen tank. Using a pure oxygen source eliminates any contaminants from being produced that may enter or harm the ozone generator. If using a tank, only use a regulator limited to 50 PSI or you risk damaging the ozone cell. **Using an oxygen tank regulator that exceeds 50 PSI will void the warranty.**

**Operating Environment:** Please choose the best operating environment that is available at the chosen site. Setup in an area that is free of airborne moisture and particles. Make sure the ozone generator is kept clean and dry. Dust particles and condensation pose a challenge to the consistent operation of all ozone generators. For consistent ozone concentrations, please operate at room temperature.

**Pressure Relief System:** The O3Arc comes equipped with a pressure relief system. If high pressure occurs inside the ozone generator, only oxygen will be released. This one of a kind system protects your ozone generator.

**Check Valve:** Each ozone generator comes with one ozone check valve. These will last anywhere from 3 to 6 months depending on use. This device is designed to catch liquid from entering the ozone generator. We recommend replacing every 3 to 6 months. **Troubleshooting your check valve:** Simply remove the tubing from your

ozone generator. Using your mouth, blow air through the tubing so it enters and exits the check valve. If air is unable to exit the check valve needs to be replaced. For a more permanent solution you may want to consider adding an ozone trap. See our website at [www.promolife.com/ozone/](http://www.promolife.com/ozone/) for options.

**Cooling Fan:** The cooling fan is designed to eliminate excess heat from the ozone cell and the electrical components inside the ozone generator. This will help maintain the most stable ozone concentration levels possible. Make sure debris and dust are not present near the fan opening. **Excess debris and dust will void the warranty.**

**Power Requirements:** The O3Arc offers a standard AC to DC wall transformer which can be used with voltages ranging from 100 to 240 volts. This gives the operator the ability to use this ozone generator internationally without a step-down transformer. A country plug adapter may be needed to plug into an international wall power outlet (this is included with international orders). Check your country for specifications.

Voltage: 12 VDC

Power Consumption: 18 watts.

Amps: 1.5

Standard US 2 prong style plug

## Troubleshooting

1. **Ozone generator is turning on, but not producing ozone.** Check to make sure oxygen is flowing through the ozone generator. Detach the tubing attached to the ozone out port and see if you notice any ozone being produced that is exiting from ozone out. If you are unable to diagnose the issue, please contact Promolife.

2. **No ozone flow is exiting the ozone generator.** Check to make sure oxygen is flowing through the ozone generator. Check for any blockages or kinks in the tubing. Remove the ozone check valve. Sometimes this valve can freeze up which may prevent air from passing through the ozone generator. If problem persists, contact Promolife.

3. **Ozone generator is not powering on.** Check to make sure the ozone generator is plugged into a working power outlet. Make sure the small LED light on the power plug is illuminated. If you are unable to diagnose the issue, please contact Promolife.

4. **Display panel flashes on and off.** Please contact Promolife.

5. **Ozone production seems lower than normal.** This could be caused by olfactory fatigue. Over time your body will start to smell things differently. Use a rubber band and stretch it over the ozone exit port. If the band breaks in several seconds your unit is producing ozone. There could be humidity or moisture inside your ozone generator. To remedy this, run oxygen through the unit while the unit is power off. Do this for 30 minutes to see if the generator starts to produce ozone again. If you are unable to diagnose the issue, please contact Promolife.

6. **Water or oil has backed-up into the ozone generator.** If water has entered the ozone generator DO NOT POWER ON. Run oxygen through the ozone generator while powered off for 1 hour at above 1 LPM of flow. Most of the time this can clear up the issue. If oil has entered the ozone generator, please contact Promolife. If you are unable to diagnose the issue, please contact Promolife.

7. **I smell ozone coming from inside the ozone generator.** Please contact Promolife.

## Disclaimer

This unit is for recreational and experimental use only.

## Warranty

Promolife offers a lifetime warranty on the ozone production cell and a 5 year warranty on the digital controls and auxiliary port. The O3Arc ozone generator will 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, or if water or any other liquid material, 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. Download our Warranty/Repair form at <https://www.promolife.com/o3warranty>

### 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/](http://www.promolife.com/promolife-guides/)



## Notes

Serial # \_\_\_\_\_

Date Purchased \_\_\_\_\_