Dr. O
Solutions
for Natural Health

Portable Ozon Generator

PTO-0.2/1.0

User’s Guide

Attention users:

1. This is not FDA approved medical device.

2. This device is not designed for treatment of any diseases or any other health conditions.

3. When using this device always follow
US DEPARTMENT OF LABOR
“Occupational Health Guideline for Ozone”.

4. When Operating Oxygen/Ozone Equipment Always Follow OSHA Safety Guidelines available at
https://www.osha.gov/laws-regs

GENERATOR KIT CONTAINS:

1. Ozone Generator Unit with Regular Power Supply (input: 100-240V; output: 12V) and Car Powel Supply.

2. Air Pump with USB Charger and 1m Silicone tubing.

3. Oxygen Filter

4. One way No-Return Valve, assembled

5. Medical Grade Stainless Steel Diffuser (20 microns) with 1m Silicone Tubing and Female Luer Lock Connector for Water Ozonation.

Please, **USE** and **MAINTAIN** Oxygen In-Line Bacteria Filter on oxygen supply line.

Not using Oxygen In-Line Filter will void Ozone Generator WARANTY!

Ozone Introduction

1. Features and Specification

2. Structural

3. Installation and Usage

4. Application

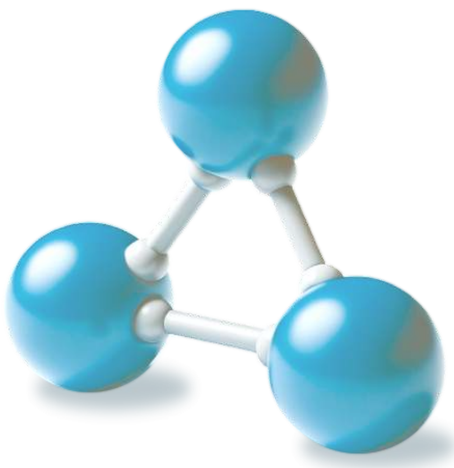
5. Safety and Cautions

6. FAQ

7. Maintenance

8. Guarantee

Warranty card



OZONE INTRODUCTION

Ozone, O3, is a toxic gas possessing a distinctive odor and is a normal constituent of the earth’s atmosphere. Ozone is produced deliberately for a variety of industrial and medical purposes and is also produced naturally from oxygen whenever ultra-violet radiation or electrical discharges, e.g. at high altitudes or by the action of lightning. Ozone itself is a distinctly blue colored gas (bp – 111.9°C) and is about one and a half times heavier than air (density 2.144g/l). Ozone is used as “ozonated air”, a colorless gas produced when ozone is generated from part of the oxygen in air. Ozone cannot be stored or transported in vessels because it decomposes spontaneously in the presence of oxidisable impurities, humidity and solid surfaces. The rate of decomposition increases with temperature.

Such natural occurrence is unlikely to produce concentrations hazardous to man, because of its strong tendency to decompose and to release oxygen, ozone is extremely reactive and is a powerful oxidising agent which reacts explosively with oil and grease. Nevertheless it can be used with safety in industry. For example, since it readily oxidises organic matter, it is used as a bactericide and algaecide.

1. FEATURES AND SPECIFICATION

Dr. O. Solutions ozone generator is suitable for medical applications. This model uses the latest Quartz & Titanium electrode technology which is best suited for use with pure oxygen. Ozone Generator PTO-0.2/1.0 should be feed with pure oxygen for any applications.

Technical specification table **Ozon Generator PTO-0.2/1.0:**

Ozone Outlet Size	5 mm Outer Diameter (suitable for 4 mm Inner Diameter Silicon Tube)
Electrical	Input: DC 12V, Rated power: 12W±2.4W
Operating Temperature	0~40 °C
Storage Temperature	-20~70 °C
Cooling System	4000 RPM 60x60x20 cooling fan 15CFM
Product Facility	Titanium steel electrode with quartz tube
Ozone Technology	Corona Discharge
Product Dimension	185 x 104 x 65 mm
Installation Way	Table top unit
Net Weight	< 900 g (net weight with PS)
Life Cycle	> 10,000 hours
Accessories	Air Pump, Oxygen Filter, No-Return Valve, Steel Diffuser with 1m Silicone Tubing and Female Luer Connector, User’s Manual

PTO-0.2/1.0 output

With precondition:	0.23 g/h at 1.0 L/min
Dry air, Temp.: 20°C ~ 25°C	0.26 g/h at 1.5 L/min
	0.30 g/h at 2.0 L/min
With precondition:	> 37 mg/L at 1/8 L/min
Oxygen from oxygen	> 24 mg/L at 1/4 L/min
concentrator	> 13 mg/L at 1/2 L/min
Humidity: < 20% RH	> 9 mg/L at 1 L/min
Temp.: 20°C ~ 25°C	

Performance Curves:

Oxygen flow liters/minute	Ozone concentration O^2 from tank, mg/l	Ozone concentration O^2 from concentrator, mg/l
1/32	85	
1/16	77	
1/8	57	37
1/4	33	24
1/2	18	13
3/4	12	9
1	9	

2. STRUCTURAL

1. ON/OFF button
2. Power inlet 12V DC
3. Ozone out
4. Oxygen inlet
5. Fan

3. INSTALLATION AND USAGE

1. Take out the unit from the package.

2. Put it on a flat surface nearby place of your application.

3. Connect the air/oxygen source to the connector on the left side of the unit.

4. Connect No-Return Valve (assembled) to the ozone outlet on a left side of the unit.

5. Connect the adapter to the 12V DC power of the appliance; plug it to the 110V outlet.

6. Press the “ON/OFF” button when the “POWER” indication light is RED, the “OZONE” indication light is green when the appliance is working.

ATTENTION!

PURE OZONE IS A TOXIC GAS FOR BREATHING!

People **ARE NOT ALLOWED** to stay in the space where the appliance is delivering ozone to the ambient air directly.

4. APPLICATION

Rectal / Vaginal Therapy

Water Ozonation

Bags for Limbs Ozonation

Ozone Breathing Therapy

5. SAFETY AND CAUTIONS

1. Make sure that all accessories are attached in the unit and the appliance is in good condition when it is received. Always keep the appliance vertical on the ground.
2. Do not store the appliance in a humid place.
3. Do not clean this appliance using a damp cloth when it is working
4. Operate the appliance in a precondition within 0~40 °C and 0~70% RH
5. Disconnect the adapter from 110V power before opening the housing or any maintenance.
6. It is not recommended to switch on & off frequently on this appliance. To avoid re-switch on/off the appliance at least 2mins after switching off.
7. Do not block the ventilated fan and outlet of the appliance all the time.
8. Turn off this appliance and unplug the adapter immediately when there is ozone leakage inside the housing. A space with ventilation is preferable to stay when this happens.
9. It is not preferable to operate the appliance in flammable or explosive places. Do be more careful if it is necessary.
10. Pack the appliance into a box if it is not going to use for a long while
11. Do not block ozone outlet line or create ozone back pressure in-line, ozone must always flow free with minimum in-line pressure.

6. FAQ

Q1. Power indication light doesn’t work after plugging the adapter to the main power socket.

Check to see:

- if the adapter is well connected to the appliance
- if the indication light of the adapter on or off
- if the adapter is in good condition or not
- ask for help from person responsible for technical support.

Q2. No ozone comes out when the appliance is on, and the power and ozone indication light is green.

Make sure:

- if the air source has been connected and there is a air flow
- make sure air feed line has no leaks or brakes
- if fan is working or not (working fan is indicated a power delivered to plasma discharge).
- change the ozone generator module or ask for help.

Q3. When should people leave or stay the place where the appliance is working and switching on/off.

It’s safe to operate ozone generator in places where ozone is not leaking to ambient air. If room is filled with ozone allow at least 15 mins for ozone to disappear after the appliance is switched off.

Q4. Who is allowed to operate the appliance?

People who are properly trained and posses a good knowledge of ozone gas properties and it’s applications.

7. MAINTENANCE

1. This Ozone Generator PTO-0.2/1.0 is warranted to be free from all defects in material in normal household use for a period of 1 year from date of purchase.

2. The warranty is guaranteed only to the original purchaser and members of his or her immediate household. The warranty is subject to the following provisions. Any damages or malfunctions caused by negligence, abuse, or not operate in accordance with the User's Manual are not covered by this warranty. Also, any defects or damages caused by unauthorized service or the use of other than Genuine parts are not covered.

3. Dr. O. Solutions will, at its option, repair or replace a defective unit or part(s) for the unit that is covered by this warranty. As a matter of warranty policy, Dr. O. Solutions will not refund the customer's purchasing price.
Please recorder the following Warranty Card when you purchase the unit from our company or the distributor.

4. To obtain warranty service you must return the defective Ozone Generator complete with power supply along with proof of purchasing to our company or any Authorized Warranty Station. All transportation charges on parts, or units, submitted under this Warranty shall be borne by purchaser.

8. GUARANTEE

This product warranty period is 365 days from shipment date excluded the situations such as improper use or man-made damage.

Dr. O. Solutions for Natural Health

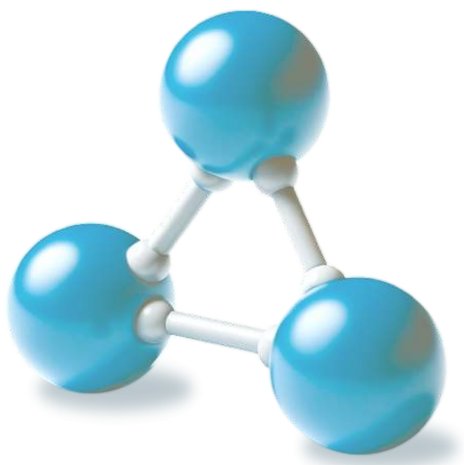
WARRANTY CARD

Customer Name _____ Model No. _____

Purchase Date _____ Serial No. _____

Customer Address _____

Customer Phone _____



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