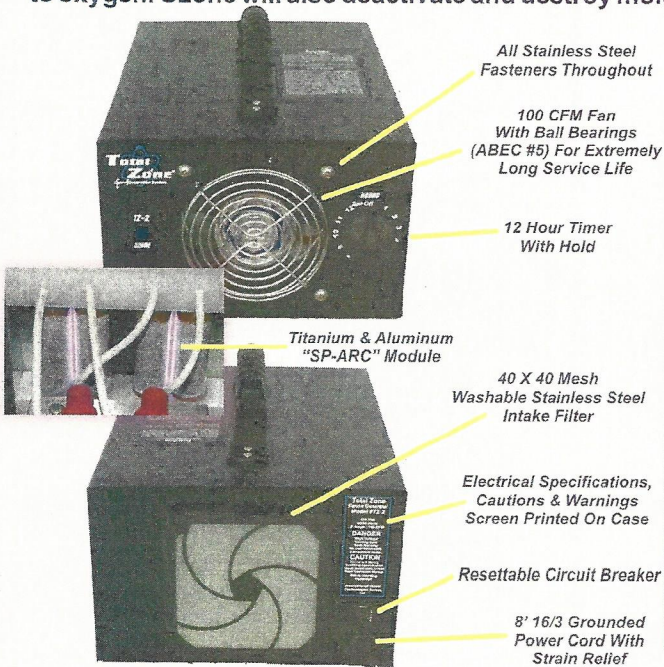


TZ-1 & TZ-2 Advanced Air Purification Equipment

What Is Ozone & How Does It Work?

Ozone (O₃) is a naturally occurring substance found in nature that we cannot live without. Ozone is an activated form of oxygen (O₂) with three atoms where regular oxygen has two. Ozone in the upper atmosphere filters out harmful rays from the sun without which all life on earth would cease to exist. Closer to home ozone is produced by lightning in thunderstorms. I'm sure you have experienced the freshness in the air after a storm. Ozone is very unstable and has an average half life of 20 minutes, this is why ozone must be produced at the point of use and cannot be stored in a container for later use. Ozone will cast off its third atom onto any other organic element thereby oxidizing it or converting it to another substance. In the case of odors it will convert a foul-smelling substance into a non-odorless substance naturally with no unhealthy chemicals to buy, store or use. Once ozone has done its job it converts back to oxygen. Ozone will also deactivate and destroy molds, bacteria, virus, fungus, and mildew.

SPECIFICATIONS



All Stainless Steel Fasteners Throughout

100 CFM Fan With Ball Bearings (ABEC #5) For Extremely Long Service Life

12 Hour Timer With Hold

Titanium & Aluminum "SP-ARC" Module

40 X 40 Mesh Washable Stainless Steel Intake Filter

Electrical Specifications, Cautions & Warnings Screen Printed On Case

Resettable Circuit Breaker

8' 16/3 Grounded Power Cord With Strain Relief

	TZ-1	TZ-2
Size	12 1/4" x 9" x 6"	12 1/4" x 9" x 6"
Weight	7 lbs. 9 oz.	9 lbs. 3 oz.
Timer	12 Hour with Hold	12 Hour with Hold
Generator	Patented "SP-ARC" Silicate Polarized Arc Corona Discharge Technology	Patented "SP-ARC" Silicate Polarized Arc Corona Discharge Technology
Fan	100 CFM ABEC #5 Bearings	100 CFM ABEC #5 Bearings
Ozone Output	1500 Milligrams Per Hour	3000 Milligrams Per Hour
Primary Volts / Amps	110 / 1	110 / 2
Secondary Volts / Amps	14000 / .35 ma	2 x 14000 / .35 ma
Cycles	50 / 60	50 / 60
Case Material	Anodized Aluminum .060 / 14 Gauge	Anodized Aluminum .060 / 14 Gauge
Finish	Industrial Powder Coat	Industrial Powder Coat
Warranty	One Year Parts & Labor	One Year Parts & Labor

Introducing Total Zone

Total Zone ozone generators are the most modern, technically advanced systems on the market today. Total Zone uses a patented corona discharge technology known as "SP-ARC", Silicate Polarized Arc. This new process allows the Total Zone ozone generator to produce much higher levels of ozone than any competitive model with little or no maintenance. All Total Zone ozone generators are designed and built for the utmost reliability in the harshest environments.

Markets For Total Zone Ozone Generators

- ◆ All hotel rooms can be non-smoking but they can still be smoked in.
- ◆ All used cars can be odor free, easier to sell.
- ◆ All fire and water damage companies use ozone.
- ◆ Apartment complexes can save on carpet replacement and extensive cleaning services after tenants move out, especially if they had animals.
- ◆ Restaurants, Bars, etc. can cut down on offensive odors and give their patrons a much more enjoyable atmosphere to dine and socialize in.
- ◆ Realtors can remove all odors from homes they are trying to sell. A smelly house is hard to sell.
- ◆ Painters can remove the offensive paint odor much sooner so that their customers do not complain.
- ◆ Carpet installers can get rid of the smelly and unhealthy VOCs (Volatile Organic Compounds) put off by new carpet.
- ◆ Rental cars can be deodorized and have smoking odors removed before the next rental.
- ◆ Health clubs and gyms don't have to smell like health clubs and gyms anymore.
- ◆ Dry cleaners use ozone to deodorize draperies and upholstered furniture.
- ◆ Homeowners can have their homes ozoned on a regular basis to keep it fresh, clean smelling and much healthier.
- ◆ Boats can be kept odor, mold, and mildew free.
- ◆ Ozone will kill or deactivate mold, mildew, fungus, bacteria virus, germs, etc.
- ◆ Sick buildings can benefit immensely from regular ozone treatments. This is much cheaper than replacing drywall, carpet, AC duct work, etc.
- ◆ Allergy sufferers can live in a purified environment free from mold, mildew, spores, VOCs, fumes, etc.
- ◆ Businesses can benefit by cutting down on employee sick days by ozoning after hours to rid the work environment of unhealthy substances.
- ◆ Factories can oxidize unlawful and unhealthy chemical emissions from their exhaust systems.



**International
Ozone**

Technologies Group, Inc.

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www.internationalozone.com

EPA Establishment Registration #87989-FL-001

Manufacturers Of Environmental Products That Solve Problems

Important Safeguards

- ▶ Do not operate equipment before reading and familiarizing yourself with all instructions, procedures, cautions and warnings contained in this manual.
- ▶ Save these instructions for later reference
- ▶ Follow all warnings and cautions marked on the product and contained herein.
- ▶ Do not use this product near water or in a moist environment.
- ▶ Operate equipment only with the correct electrical power specified on the backside of the case.
- ▶ Do not attempt to service this product yourself as opening or removing the enclosure may expose you to dangerous voltage or other hazards.
- ▶ Do not put foreign objects inside the equipment.
- ▶ Do not operate equipment with a damaged cord or plug, if fans fail to rotate, after the equipment malfunctions or if it has been dropped or damaged in any manner. Return equipment to manufacturer for examination, electrical or mechanical adjustment or repair. (See warranty for information.)
- ▶ Do not block air flow through equipment. Set equipment at least 6 inches from walls or any structure that could block the air intake.
- ▶ Do not use equipment in a flammable or explosive atmosphere.



Total Zone Warnings And Precautions

OZONE IS A POWERFUL OXIDIZER THAT REACTS WITH ORGANIC SUBSTANCES AND IS CLASSIFIED BY OSHA AND EPA AS AN UPPER RESPIRATORY IRRITANT. OSHA SETS THE ALLOWABLE EXPOSURE LIMITS AT .05 PPM TO .1 PPM. ALL SAFETY PRECAUTIONS HEREIN MUST BE ADHERED TO AND COMMON SENSE PRACTICED.

The ozone produced by the Total Zone TZ-1, TZ-2, TZ-4 & TZ-8 is above the allowable exposure limit as set by OSHA for inhabited areas and therefore no person or animal should remain in an area being treated by these units. The treated area should be aired out or given enough time for the ozone to dissipate to a level below .1 PPM before people or animals are allowed to re-enter. Ozone has an average half-life of 20 minutes, so one hour should be sufficient time for an un-vented room to return to normal. If ozone odors are noticeable and irritating, the area should be vented longer until the level is reduced. The average person can detect ozone at levels as low as .003 PPM.

Symptoms of prolonged or excessive exposure to ozone are: burning, watery or irritated eyes, nose, and throat, nausea, headache, difficulty in breathing, dry cough, irritation to nasal passages, throat, bronchial and pulmonary membranes.

Caution:

Only qualified personnel should operate Total Zone ozone generators.

As with all electrical devices this equipment should not be operated in a wet or damp environment.

This equipment should only be operated using a properly grounded electrical outlet.

All precautions must be taken to prevent over exposure of ozone gas to occupied areas.

Do not disassemble your Total Zone equipment, there are no user serviceable items inside and this will also void the warranty.

International Ozone Technologies Group, Inc. assumes no liability for damages or injuries incurred by misuse of this equipment.



Theory of Operation

Your Total Zone ozone generator is the most modern, technically advanced ozone generation system on the market today. The Total Zone utilizes a patent pending "SP-ARC" (Silicate Polarized Arc) technology. This new technology consists of a module comprised of two quartz sleeves containing a proprietary, highly conductive substance surrounding a stainless steel electrode. The two sleeves are mounted so as to facilitate a gap between of 3/32". One electrode is connected to ground while the other is charged with high voltage at a very low current. This charge creates an arc in the air gap between the two sleeves which is known as "Corona Discharge". When oxygen, O_2 , passes through this arc some of the molecules are split resulting in free oxygen atoms. These free atoms combine back with intact O_2 molecules resulting in O_3 which is ozone. The main benefits of our new technology are that it is self-cooling and runs at a low temperature. Also, all ozone-producing surfaces are comprised of silicate quartz with no metal components that will corrode and need cleaning on a regular basis as in most other corona discharge ozone generators. Our systems are very high output with no to very low maintenance.

