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Important Safeguards

- Do not operate equipment before reading and familiarizing yourself with all instructions, procedures, cautions and warnings contained herein.
- Do not use this product near water or in a moist area.
- 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 fan fails to rotate, after the equipment malfunctions or if it has been dropped or damaged in any manner. Return equipment to Grand Rental Station.
- 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 the equipment in a flammable or explosive atmosphere.

Ozone 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 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. 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 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.

General Use Guidelines

Determine the source of the odor and remove any odor causing substance that can be found. If the odor is from a wet or flooded situation dry the entire area well before starting your ozonation procedure.

Determine the size of the area that will be ozonated. Multiply the width by the length by the height to determine the total cubic feet of the area.

The following suggestions are general. The actual time it will take to remove an odor or to purify an area depends on many variables such as pollutant load, temperature, humidity, etc.

Divide the fan output (TZ-1 = 50cfm) into the total cubic feet to be ozonated.

Example: 10’ wide x 10’long x 10’ high room = 1,000 cubic feet.

Divide 50 cfm into 1,000 = 20.

It will take twenty minutes for the TZ-1 to completely fill the area with ozone.

As stated above this is a general guideline. In some cases you will have to go longer and in other cases you will go shorter. Once you have become experienced with using ozone for odor removal you will be able to determine the treatment times from your past experiences.

Set your ozone generator by the air conditioner return if possible. If there is no air conditioning set the unit in the middle of the area. You may want to use additional fans to help distribute the ozone. If there is Ac set the thermostat on constant fan and adjust the temperature control to a low (cold) setting. Ozone generators work best in a cool, low humidity environment. The secondary benefit of running the AC is that YOU WILL PURIFY THE INSIDE OF THE DUCTWORK WHERE MOLD AND MILDEW LOVE TO GROW. After the treatment, when the AC is turned on, the air will be clean and fresh with no germs, pollutants or irritants blended into it. The above also should be followed when ozoning automobiles. Smoke and stale odors will stay in a car’s AC ducts if you do not run the AC.

Close all exterior doors and windows. Set the ozone generator’s timer for the time you have determined that will be needed. Make note of this time, as you do not want to return to the treated area until at least 60 minutes after the equipment has shut off. If you must enter the area before the ozone has had time to convert back to oxygen open all windows and doors to vent the ozone. DO NOT breathe high levels of ozone. International Ozone Technologies Group, Inc. offers a small digital ozone monitor that can be used to tell if the ozone levels are too high. Be safe and use common sense at all times when you are using ozone.