

How Ozone Breaks Down Odor

Ozone removes odor by destroying the molecules, bacteria, and spores that cause unpleasant smells. Ozone (O₃) is a highly reactive molecule and is very quick to chemically react with particles that it comes into contact with in the air and on surfaces. The extra oxygen atom in the ozone attaches itself to other molecules, chemically changing their structure to create non-



Killing mold, Killing mildew, Killing bacteria, and Getting rid of odors

Killing mold, mildew and other germs takes high concentrations of ozone so that should only be done when a room is unoccupied. Mold is also much tougher to treat than common odors, so plan on running a properly sized ozone generator for at least 24 hours in each room being treated.

The ozone concentration needed to kill mold (**shock treatment**) is well beyond the level that is safe to breathe. It is similar to fumigating a room in your house for bugs. You wouldn't want to stay in the room breathing those chemicals. Luckily, ozone doesn't smell as bad and doesn't linger as long as those bug killers.

TYPICAL USES FOR ULTRAZONE GENERATORS

- **SMOKE:** Smoke odors from fire-damaged stores, homes, factories etc. are removed overnight leaving no offensive odors to effect business or living conditions.
- Clothes, draperies etc. may be placed in a closed closet and treated with ozone, eliminating disgusting odors and smells.
- Odors from tobacco smoke, fumes etc. may be treated with ozone overnight, allowing Cars and trucks to return to a fresh, clean-smelling condition.
- **LOCKER AND MOTEL ROOMS:**
- **RESTAURANTS AND BARS**
- **HOME CLOSESTS, BATHROOMS AND WET BASEMENTS CAN BE TREATED TO KILL MOLD AND MILDEW.**

Bottom line: There are no masking chemicals, perfumes or fragrances introduced in to the air. Cooking odors, tobacco, and organic matter are eliminated in the process which, actually destroys the source of odor causing products, providing that the ozone has been able to get to them.

**8126 Forestdale Dr
Charlotte, NC 28227**

E-mail: cliff.thewiz@gmail.com

cTJohnson

UltraZone III 10 grams/Hour State of the art plate ozone generator

ozone removes odor by changing the molecules, bacteria, and spores that cause unpleasant smells and Kills Mold and Mildew

cTJohnson

Mobil: 980-939-5184



7/1/2020

UltraZone III

IMPORTANT - CAUTION

Ozone is a toxic gas and must be handled as such. Avoid any type of over exposure. Temporary exposure to high concentrations of ozone can cause watery eyes, stuffy nose and coughing. This type of built-in warning will cause a person to leave the presence of ozone. If you can smell ozone in the air the concentration has exceeded .05 ppm, **never expose yourself or anyone else to this concentration for more than a brief period of time.**

Disclaimer:

he UltraZone III produces high concentrations of ozone and utilizes high voltage to do so. **NEVER OPEN ENCLOSURE OR TOUCH THE OZONE PLATE WHEN THE MACHINE IS RUNNING**

Use only in unoccupied areas for shock treatments. Prolonged human or animal exposure to high levels of ozone can irritate the lungs and eyes. Ozone is a very strong oxidizer that can corrode non-stainless steel metal and degrade some soft rubber products when exposed to shock treatments for periods over 24 hours

IMPORTANT OPERATING REQUIREMENT

The intake for the unit must have fresh air to function properly. Always place the unit such that the output is to ward the area that is to be treated. In a car use a clothes hanger to position the unit on the backrest of the drivers seat with the inlet as close to the window as possible. Leave the window open just enough for the unit then try to fill the area in the window to close it around the units air intake as best you can for the maximum treatment effect.

What is Ozone?

Or trioxygen is a colorless unstable toxic gas with a pungent odor and powerful oxidizing agent which breaks down odor causing organic matter, formed from oxygen by electrical discharges or ultraviolet light. It differs from normal oxygen (O₂) in having three atoms in its molecule (O₃). A thunder storm produces ozone in the atmosphere. The name OZONE was derived from a Greek word meaning "I smell"; the characteristic odor of the substance is often noticed around electrical machines. OZONE is a powerful oxidizer, but breaks down in about 30 minutes.

NOTES:

Do not operate in areas where Humidity levels over 90% or where standing water is present. If you have a dehumidifier and live in a humid area, run the dehumidifier while performing shock treatments. You should also run your air conditioner below 70 degrees during shock treatments to dry the air and to extend. **Moisture can damage and shorten ozone generating plate life.**

HOW TO USE:

How much ozone do you need to permanently **remove odors**? All it usually takes is one 1-2 hours under normal conditions. In the process you'll also kill dust mites, viruses, bacteria, and other parasites and small bugs. The secret of an ozone **shock treatment** is to churn the air. Ozone generators convert the oxygen content in the air into ozone (O₃). If you can't get the air to the ozone machine all you'll do is create a cloud of ozone near the unit. Therefore circulate the air with a fan or the vehicle vent system fan because that's what will perform the best treatment. Before you start, remove your pets (except fish). No need to remove plants because 1 hr will not cause them harm. Use the appliance timer and set it to turn on for 1 hour, then off for 2 hour, then on again if need be. The ozone will linger an hour then convert back to oxygen at room temperature (longer if colder).

Operating Instructions

Directions: Place your ozone generator on solid, dry surface as high up as possible plug the power cord into wall or wall timer (preferably in an adjacent room via extension cord). Confirm the unit is producing ozone and intake fan is as close as possible to fresh air. ***Leave area promptly once confirmed that the unit is running.***

TREATMENT RECOMMENATIONS:

To remove: smoke, mold, strong odors. Run for one hour **on**, 2 hours **off** until odor is gone. NEVER shock an area for long periods of time as ozone can damage foam's and makes them hard and brittle. One hour will remove odors but won't damage susceptible items.

Rooms: It is best to ozone shock areas room by room. Ozone dissipates at colder temperatures but will not break down in freezing temperatures. At 46 degrees, it takes ozone 4 hours to dissipate and you can shock a much larger area if you have air conditioning running during shock treatments, especially in humid areas, **BUT YOU MUST LEAVE.**

Clothes: Place clothes and leather items in a closet . Leave door open and hang the Ozone generator near the top of the door with the air intake facing out , the hang some towels or drapes beneath the unit to close the door gap. The idea is to keep the ozone from escaping for the room.

Vehicles: 30 minutes with vehicle fan running in recirculation, Air Conditioning on and vents pointed towards ozone units intake fan. Repeat until odors are gone. Inlet must close to an open car window.

REMEMBER; DON'T BE IN THE AREA THAT IS BEING TREATED.