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## Enerzen commercial ozone generator parts

Reviewed by Dr. Yogi Goswami PhD, co-founder and Chief Scientist Advertising can be strong. You may have heard manufacturers describe ozone generators as natural odor removers that work the way nature intended. But are these claims misleading? Find out more about ozone air purifiers in this article to help you decide what's best for you and your family. What is ozone? Unlike the oxygen (O2) we breathe, ozone (O3) consists of three oxygen atoms. As you may know, ozone is a gas. Ozone molecules have three oxygen atoms (O3), as opposed to oxygen in the air that gives life to the planet (O2). Ozone is powerful because the extra oxygen atom can easily escape and attaches to other substances. This highly reactive quality can potentially alter the chemical composition of some substances in the air and affect our cells if we inhale it. When you hear the term ozone you can think of the ozone layer, which protects all life from the dangerous UV radiation from the sun. This is the good ozone that is present in the stratosphere. But ground-level ozone is poor as it is hazardous to health and is classified as an air pollutant by the EPA. Ground-level ozone is created in nature by the interaction of sunlight with certain chemicals released into the environment, including emissions from vehicles and industrial plants. It is also created when lightning strikes, which is why you may be able to smell ozone after a storm. Ozone, whether pure or mixed with other chemicals, can be harmful to health. Is ozone bad for you? Since the early 1900s, health professionals have warned of the dangers of ozone. Just as it reacts with substances outside the body, it can react with living tissue in the body. This means that ozone can cause a number of health problems, such as coughing and respiratory inflammation. It can also reduce lung function and damage lung tissue. Certain groups such as children, people with asthma, and older adults are particularly vulnerable. You may have heard of the Clean Air Act. Under this federal law, the Environmental Protection Agency (EPA) sets standards for outdoor air quality to protect public health. There are six air pollutants for which the Agency has set standards, and ozone is one of them. If ozone is dangerous enough for the EPA to monitor outdoor levels, then it is all the more dangerous for ozone generators to release pure ozone into your home. In context, the U.S. Food & Drug Administration (FDA) requires that indoor medical devices can only produce a maximum of 50 ppb (parts per billion) of ozone. The National Institute for Occupational Safety and Health (NIOSH) recommends that indoor ozone levels should not be greater than 100 ppb. What are ozone generators? Ozone generators, also known as ozone machines, are ozone-producing devices that intentionally produce ozone gas. When as air purifiers to be used in indoor occupied spaces, they are marketed to be safe and effective (although these claims are generally false). This article discusses devices that produce ozone on purpose and not as a by-product. Ionizers and electrostatic precipitates end up producing ozone as a by-product as a result of their internal mechanisms. You may have heard of ionizers. They used to be very popular and were often used in homes to clean the air and remove odors. But in the spring of 2005, Consumer Reports Magazine exposed the devices as potentially doing more harm than good, it was found that several of these devices can produce harmful levels of ozone. Although ozone is a byproduct of these ionizers, and tends to be produced at a lower level than ozone generators, the federal government began a stricter regulation process for any air purifier that produces ozone, either intentionally or as a byproduct. No federal agency has approved the use of ozone generators in occupied spaces, and the California Air Resources Board (CARB) has very strict regulation for air purifiers sold in California to ensure that harmful ozone levels are not produced. How do ozone generators work? Ozone generators apply an electric charge to the air passing through. This divides some normal oxygen atoms into unstable individual atoms, which bind to other O2 molecules to form O3. Ozone generators produce ozone by breaking oxygen molecules (O2) into individual atoms, which then attach other oxygen molecules into the air to form ozone (O3). They achieve this in one of two ways, according to the International Association of Certified Indoor Air Consultants (InterNACHI). Ozone generators work by: Silent corona discharge: These machines use electrical discharge to produce ozone by splitting the normal oxygen molecules in the air into individual atoms. These atoms then attach other O2 molecules in the air to form ozone (O3). Ultraviolet radiation: This process of ozone generation is similar to how the sun's ultraviolet radiation divides O2 to form individual oxygen atoms. According to InterNACHI, this process is considered to be less effective than corona discharge. Why are ozone generators used to clean the air? If ozone is so dangerous, why would anyone use it to clean the air inside a home? As described above, ozone is highly reactive and can change the chemical composition of certain substances in the air. This principle forms the basis for the producers' claims. Companies that sell ozone generators may indicate that ozone is a healthy form of oxygen, using terms such as activated oxygen or clean air, although ozone is actually a toxic gas that is not the same as air as producers can claim. Ozone-generating units are often marketed as odor removers. Ultimately, they are used to remove organic from the air. Air. Given its health hazard, it would only be wise to use an ozone generator if there are clear benefits. How effective are ozone generators? Manufacturers' claims Manufacturers say that the highly reactive nature of ozone makes it possible to easily attach to pollution, especially smelling compounds like smoke and organic matter such as viruses, bacteria and mold spores. But these claims are not backed up by sound science. Performance against Mold and Bacteria Research has shown that ozone generators were not effective in stopping mold or bacterial growth in a regular hospital room, and it would require unsafe levels of ozone to perform the job at all (Dyas, Boughton, & Das, 1983). For mold growth, public health departments recommend not using ozone generators for cleanup, saying that ozone even at high levels cannot control mold. Performance against VOC You may ask yourself, if ozone gas is effective on anything, should it work on other gaseous contaminants (especially volatile organic compounds, or VOC) right? It may not do so unless you wait thousands of years in some cases. A research study (Boeniger, 1995) analysed how long it would take to remove 14 of the most common organic compounds found in the air. It was found that at ozone concentrations of 100 ppb it would take 880+ years before six of these pollutants were broken down into half of their original concentrations (half-lives). In fact, it would take more than 4,400 years for formaldehyde! Only one pollutant, styren, was found to have a half-life of about 4 hours. Performance against particles Remember that ozone generators do not remove particles such as dust or pollen (which are often allergens) from the air. The EPA's conclusion on effectiveness the EPA concludes from a review of scientific research that ozone at concentrations that meet public health standards is not very effective in eliminating indoor air pollutants. The million dollar question for you may be whether ozone generators can remove odors from the air. This is at least what manufacturers claim to be the most common use for ozone generators in homes. However, the evidence is mixed as to whether ozone generators can remove most odors from the air. As mentioned above, ozone generators may not work effectively at all for gases, namely volatile organic compounds (VOC), as this process can take hundreds of years. But some studies reviewed by Britigan, Alshawa, and Nizkorodov (2006) have shown that ozone can be effective for certain types of VOC (namely those that contain unsaturated carbon-carbon bonds). These types of VOC are found in cooking oils, air fresheners, cleaning products, etc. However, there is one major drawback: other dangerous by-products such as formaldehyde can be released into the air when ozone with these substances. Here's another important point: What you might as smell removal may just be façade. Odors in a room could be masked by the smell of ozone released into the air. Many people who use ozone generators like the smell that is produced describe it as a clean sheet smell or the smell of clothing fresh from the dryer (EPA, 1995). What are the safety measures for ozone generators? Ultimately, you should know that no agency of the federal government has approved using ozone generators in occupied spaces. If you need one or have no choice in a particular situation, you should take all possible measures to ensure that they are never used when humans or animals are present in the room. Plants should also be kept out of the area. Many times, if ozone generators are used, they are used for commercial cleaning in hotels, cars, etc. Many hotels use them inside a room just before new guests arrive, which can be harmful due to any residual ozone that lingers in the air. Manufacturers of ozone generators recommend that they are only used by trained professionals for odor removal, and that all other steps, such as cleaning the area and removing any sources of odor, should be done first. Read more about a new air purifier technology that destroys ozone instead of producing it. What are some better solutions? There are other solutions that are much safer and more efficient than using an ozone generator. The first recommended steps are also the cheapest solutions for improving air quality. First of all, you should always try to remove the sources of odor or contaminants as much as possible. Secondly, try ventilating the area to allow for better air circulation in your home if possible. You may want to disregard this step if living near a source of high level outdoor pollution or outdoor air quality is poor. Afterwards, using an air purifier that is not an ozone generator could be a good option to try. There are different types of air purifiers out there, from mechanical filters (like HEPA) that only remove particles from the air, or gas-phase filters like carbon filters that are only designed to remove VOCs. If you want a more complete solution for cleaning the air, consider Molekule technology, which is very effective against mold, VOC, allergens like pollen, bacteria and viruses. It also destroys VOC and biological pollutants, unlike traditional air purifiers like HEPA, which simply trap particles. Additionally, if you are particularly concerned about odors, there are other, much safer ways to make your room smell fresh. Conclusion The negative aspects of ozone generators certainly outweigh any positive benefits, and it is best if you are considering safer and more effective solutions to improve your indoor air quality. Manufacturers of ozone generators often make fake about their devices and say they are effective for odor removal. Total Total entities are strictly regulated by federal law and the EPA and other federal agencies like the Air Resources Board (ARB) warn of their health dangers. In general, there is no scientific evidence that ozone generators are effective unless they produce extremely high ozone levels. Ultimately, there are far more effective and safer solutions to air quality problems. You can provide a safe space with clean, fresh air for you and your family through other methods including source control, ventilation and other air purifier options. Options.

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