ZONO Technologies™
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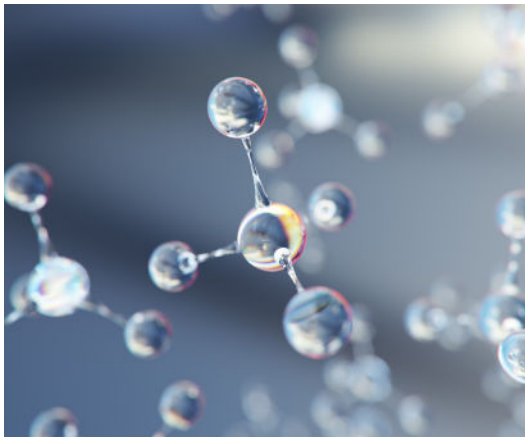
INTRODUCTION TO OZONE

One of nature's most powerful oxidizers (second only to elemental fluorine), ozone has been used as a powerful organic disinfectant and sanitizer since the early 1900s. Ozone is widely used for water treatment, including disinfection of municipal water supplies, swimming pools, spas, cooling towers, and sewage treatment plants. Today, nearly all bottled water is treated with ozone.

The United States Department of Agriculture accepted ozone as safe and suitable for use in the production of meat and poultry products in 2000 (Final Ruling), and the States Food and Drug Administration approved ozone as an antimicrobial agent for food in 2001.

WHY OZONE?

- Ozone is a gas made of just one thing: **OXYGEN!**
- Unlike liquid disinfectants and sanitizers, ozone gas penetrates into padding and fabric where spray sanitizers cannot go.
- Unlike other disinfectants and sanitizers, such as chlorine bleach, ozone gas does not damage or impact the integrity of the fabric or padding.
- Ozone gas can sanitize fabrics and items that are non-washable.
- Ozone eliminates the use of hot water.
- Ozone is very inexpensive to produce.
- Ozone reduces offensive odors, which are likely the result of decomposition of viruses[+] and bacteria[*].
- Ozone will not damage, discolor, or decrease the life of paper, wood, metal or glass items and most plastics.



SCIENCE SUPPORTING THE ZONO™

The ZONO™ is a "Disinfectant" and "Sanitizer". What does that mean? To "disinfect" means to inactivate or destroy microorganisms on inert surfaces, and to kill in 99.9% of the virus tested. To "sanitize" means to reduce microorganisms to levels considered safe from a public health viewpoint, and to kill 99.9% of the bacteria tested. For example, on common liquid disinfectants, you will see a claim that states the product kills 99.9% of common viruses[+], and on sanitizers you will see a claim that states the product kills 99.9% of common bacteria[*]. The + then refers the reader to the virus tested using the chemical and the * refers the reader to the bacteria tested using the chemical.

People often mistakenly use the terms sanitize, disinfect, and sterilize interchangeably. Those terms have distinct meanings under the law.

+Disinfecting level (kills 99.9%): Norovirus, Influenza-A, and Respiratory Syncytial Virus on non-porous surfaces.
*Sanitizing level (kills 99.9%): Staphylococcus aureus, Methicillin-Resistant Staphylococcus aureus, Escherichia Coli, Streptococcus Pyogenes, Shigella dysenteriae, Salmonella Enteritidis, and Pseudomonas Aeruginosa on non-porous, semi-porous and porous surfaces.

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LABORATORY VALIDATION

The efficacy of our equipment has been verified in independent viral and bacterial testing by Aerobiology Laboratory Associates (December 2010), the University of Georgia, Center for Food Safety, College of Agricultural and Environmental Sciences (February 2011) and Microbac Laboratories.

The ZONO™ Cabinet meets the EPA's requirements for making Virucidal claims for a surface disinfectant which requires at least a 3 log10 reduction in virus+ titers and for making Sanitizing claims for a surface sanitizer which requires at least a 3 log10 reduction in bacterial* count.

SAFETY FEATURES

At ZONO Technologies™, your health and safety and the health of the environment are our top priorities. The ZONO™ has numerous safety features to provide protection to operate the ZONO™ in play and work areas.

DISPLAY PANEL

The Display Panel on the front of the ZONO™ always tells the operator whether the ZONO™ is locked or unlocked, safe to open, or if sanitizing is ongoing or sanitizing is complete.

ACCESS CODE & GREEN START BUTTON

Before the operator can start a disinfecting and sanitizing cycle, heat cycle, drying cycle or lock the door(s), the operator must enter an "Access Code," (a sequence of numbers given to the operator) on the Display Panel. Then, the operator must open the door(s) of the ZONO™ and press a green "start" button inside the ZONO™. This ensures the operator has looked inside the ZONO™ to make sure a person is not inside. Finally, the operator will press the box to start the appropriate cycle or lock the door. The same "Access Code" is used to unlock the door. The access code must be entered to ensure no one except authorized users can open the door.

MAGNETIC LOCK

The Magnetic Lock on the door prevents the door of the ZONO™ from being opened if the ozone level inside the ZONO™ is not safe for the door to be opened.

INSIDE OZONE SENSOR

The Ozone Sensor inside the ZONO™ monitors the ozone level to ensure that the ZONO™ is properly operating and that it is safe to open the door. As stated above, the Magnetic Lock prevents the doors from being opened if it is not safe.

OUTSIDE OZONE SENSOR

The Ozone Sensor located outside of the ZONO™ detects ozone outside of the cabinet at a level of 0.3 parts per million (ppm). The 0.3 ppm is the level that OSHA allows workers to be exposed for 15 minutes. If ozone is detected outside of the ZONO™ at 0.3 ppm, the ZONO™ will stop producing ozone and the Display Panel will state that ozone is detected outside the ZONO™.

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