

when clean matters.



Does complete cleaning and sanitation of environmental solid surfaces have an impact on what you do?

Are you in food service, healthcare, senior care, education, agriculture, or any industry in which cleanliness is paramount?

Are you covering up the quality of your air by deodorizing instead of purifying?

Are significant cost savings and operational efficiencies important to your bottom line?

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If clean impacts you, the engineered water and air solutions from Bio-Safe, provide the following advantages over conventional disinfection methods:

90% savings on chemicals

90% savings on energy

50% savings on sanitation labor

Bio-Safe is an advanced manufacturer and distributor of disinfection products and services through engineered water, gas, and fogging.

Bio-Safe is environmentally friendly, chemical-free, and safe to use as it utilizes oxygen and water and produces only oxygen and water as byproducts... because clean matters.



## Founded by the Expert

Bio-Safe was developed by Dan Lynn, a world-renowned expert on the control of pathogenic substances. Lynn holds an M.S. in Applied Science and Technology as well as a degree in Health and Safety. As an FDA Clinical Investigator, he is frequently involved in high-profile infectious disease investigations. His qualifications include HACCP certification from the US Department of Commerce and infectious disease certification in New York and New Jersey. He is an expert on agroterrorism and biosecurity for the U.S. Department of Homeland Security. In addition, Lynn is globally recognized as an expert on ozone effectiveness and applications. With over 20 issued patents related to cleaning processes and pathogenic control, the products and systems derived from Lynn's work are integral to the operation of Fortune 500 companies throughout the world.

# Bio-Safe Technology

## AQUEOUS

Bio-Safe's compact (1 sq ft) unit pulls oxygen molecules ( $O_2$ ) from the air and splits them into single atoms of oxygen ( $O_1$ ). These single atoms bond weakly with  $O_2$  molecules to form  $O_3$  (ozone) molecules that are injected into tap water. The weakly bonded oxygen atoms in the Bio-Safe disinfecting solution attach to pathogens and literally destroy them by bursting the cell walls.

The disinfecting solution created by Bio-Safe's patented technology kills 99.99% of all pathogens on contact, including salmonella, e-coli, mold, pesticides, bacteria, and viruses such as influenza and COVID-19. After destroying pathogens, the  $O_3$  molecules convert back into  $O_2$ . The only byproducts of Bio-Safe disinfection are oxygen and water.

## GAS

Activated oxygen is similar to the ordinary oxygen you breathe every day, with just one structural difference. Each molecule contains three oxygen atoms, not two. That one difference is enough to drastically change the chemical properties of this gas. Bio-Safe technology degenerates oxygen into diatomic  $O_2$ —the air we breathe—and free oxygen atoms.

This is where the cleansing action begins, since these free oxygen atoms are highly reactive and will oxidize almost anything they come in contact with: bacteria, viruses, and mold spores, for example.



## The Future of Clean

The days of harsh, carcinogenic chemical cleaners are numbered. Bio-Safe represents a paradigm shift in clean science through massive cost savings, improved efficiencies, smaller carbon footprint, and most importantly, a cleaning power that outperforms harsh chemicals. Aqueous ozone is tested, proven, effective technology that will forever change the way we think about clean.



# The Bio-Safe Advantage

## AQUEOUS

- Kills 99.99% of all pathogens on contact, including salmonella, e-coli, mold, pesticides, bacteria, and viruses.
- Meets and exceeds the World Health Organization's (WHO) standard for oxidation reduction potential (ORP) of 650mv. This means that no pathogens can survive.
- Produces 100% chemical-free aqueous ozone – completely safe on contact and washes down the drain.
- Breaks down stubborn biofilms by destroying the protein bonds that protect layers of microorganisms and residue from chemical cleaners.
- Eliminates the need for costly and dangerous chemicals, creating measurable savings in overhead and increased safety for employees.
- Produces aqueous ozone sanitizing solution on site and on demand. That means it doesn't run out. No inventory to maintain. Faster and more efficient.
- Installs in minutes under the sink and will replace an entire shelf or closet of chemical cleaners.
- Costs pennies a day to operate, using a standard 110v outlet, equivalent of 35W light bulb.
- Constructed from highest-quality UL listed parts and assembled in the U.S.
- Aqueous ozone is FDA approved as a food additive, so it can be used to clean and wash fresh produce, meat, and other foods.
- Sets new standards in organizations' HACCP and SSOP protocols.
- Eliminates costly disposal expenses by rendering biohazardous healthcare waste "safe to handle".
- Patented technology developed by one of the world's foremost experts in pathogenic control.
- No maintenance necessary and warranted for one year.

## GAS

- Activated oxygen is not a pollutant, and it remains in the air for a set amount of time.
- Naturally occurring gas that is created in the upper atmosphere where O<sub>2</sub> (oxygen) reacts with ultraviolet rays from the sun.
- As an odor oxidizer, it effectively treats odors from smoke, pets, and food preparation.
- As an air sanitizer, it treats bacteria, viruses, mildew, and molds/allergens.

# The Future of Disinfection

Bio-Safe products and services integrate our patented antimicrobial technology, focusing on specific aspects of water purity, air quality, and surface disinfection.

## Bio-Safe Antimicrobial Unit (Industrial/Commercial/Residential Use)

The Antimicrobial Unit is a high-performing, hard-surface cleaning and sanitizing system that transforms cold water into an oxygen-enriched solution that is a more effective sanitizer than chlorine, killing 99.99% of all pathogens on contact while avoiding the safety and handling concerns often found with harsh chemicals.

Aqueous ozone is recognized as an effective sanitizer by the FDA, USDA, EPA, FIFRA, NSF, and OSHA. The system generates an aqueous ozone solution with an oxidation reduction potential (ORP) that provides pathogenic control to surfaces that the solution comes into contact with.

The Bio-Safe Antimicrobial Unit also pairs the powerful sanitizing of the Bio-Safe unit with a carbon filtration system. The carbon filter removes the flocculated heavy metal and destroyed pathogen particulates from the aqueous ozone solution – providing, along with the sanitizer solution, the safest, purest drinking water possible.

## Bio-Odor Control Panel (Indoor Air Purification System)

The air we breathe is necessary for life, yet we often take it for granted. We wash our hands, sterilize door knobs and kitchen surfaces, but we rarely think about cleaning the air we breathe. Yet this air contains hundreds of different substances, both harmful and beneficial, and can play a major part in the spread of airborne viruses such as the novel coronavirus. Spraying chemicals or deodorizers won't sanitize the air.

Air purification is a step above chemical sprays, and better yet, air purifiers that use activated oxygen have one very important thing going for them: the free O- (oxygen atom) produced by Bio-Safe is a strong antiviral agent that can combat any virus molecule it encounters while attacking odor-causing substances and purifying the air.



Bio-Safe Technology can greatly reduce or eliminate the need for expensive and caustic chemical cleaners, and is currently used by some of the most widely recognized companies.



## Bio-Fogging Services

Pathogenic microbes such as viruses, fungi, and harmful bacteria are the main cause of airborne or direct contact diseases in animals and humans. Studies show that applying disinfectants and biocides via aerosol or fogging significantly reduces the number of viable infectious pathogens in enclosed areas.

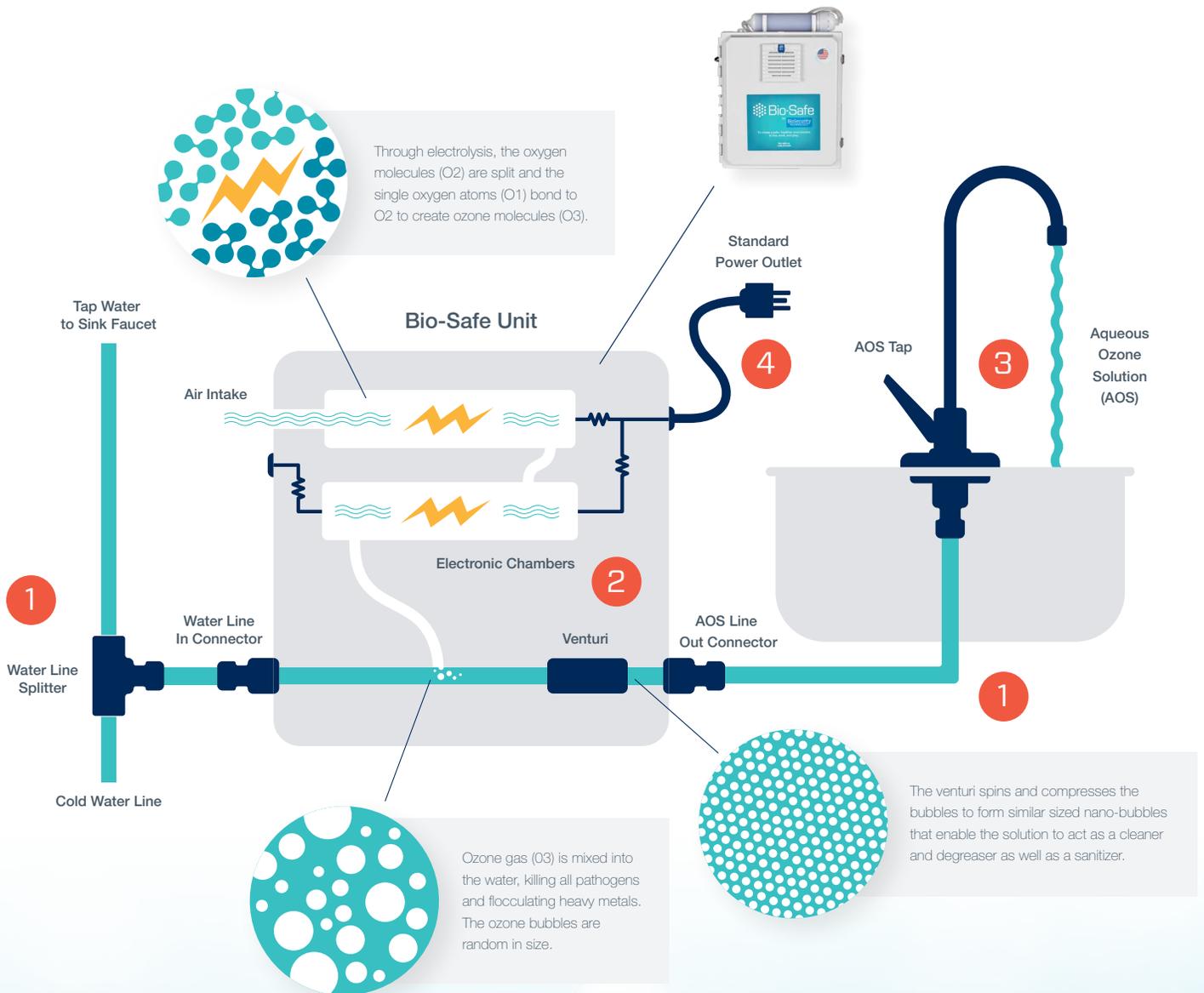
Outdated methods of biofogging rely on dangerous chemicals that not only kill pathogens but also can kill plants, animals, and even people. Chemical fogging also corrodes materials such as plastic, fabric, and metal, destroying them gradually over time.

By contrast, Bio-Safe biocidal fogging uses oxygen and water to safely and effectively kill airborne and surface pathogens such as viruses and bacteria without harming people, animals, plants, or materials. Bio-Safe biocidal fogging is available in two forms: cold fogging and thermal fogging.

Creating a safer, healthier environment to live, work and play

# The Bio-Safe Disinfection Process: Easy to Install

- 1 Add Splitter and Water Lines
- 2 Mount Bio-Safe Unit to Wall
- 3 Install Faucet
- 4 Plug It In



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## Solid Surface Applications

The on-site and on-demand Bio-Safe Solution is incredibly fast to produce and easy to use, saving 50% on cost of labor...and there is absolutely no need to mix in harsh chemicals, saving up to 80% on chemical expenses.

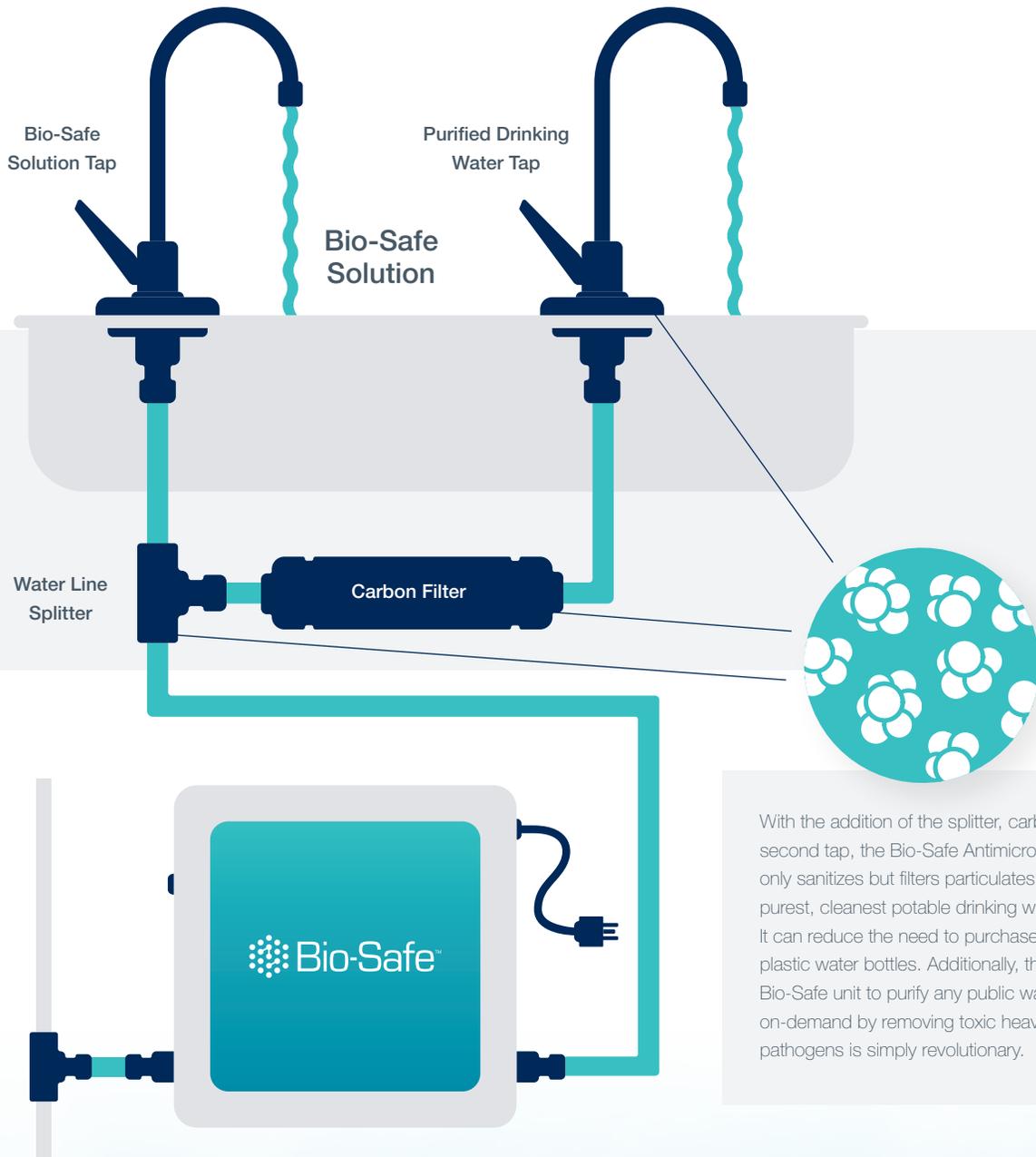


Fill a spray bottle with Bio-Safe Solution to spray down solid surface such as counters, equipment, tables, and mirrors and then wipe clean with a microfiber cloth. Rinse dirty cloths with AOS and wring them out and they are ready to go again.



An optional spray wand is available for purchase to rinse down sinks, counters, walls, showers, or any surface. Wipe dry with a clean microfiber cloth or squeegee to a floor drain. The applications are endless.

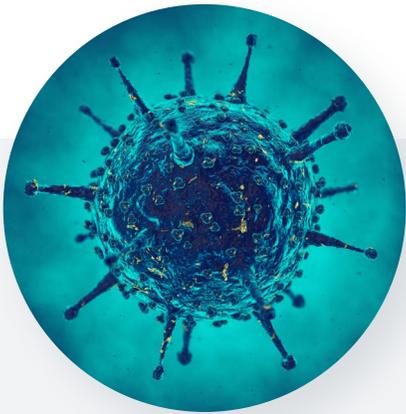
# Revolutionizing Public Water Treatment



With the addition of the splitter, carbon filter, and second tap, the Bio-Safe Antimicrobial Unit not only sanitizes but filters particulates to provide the purest, cleanest potable drinking water available. It can reduce the need to purchase disposable plastic water bottles. Additionally, the ability of the Bio-Safe unit to purify any public water on-site and on-demand by removing toxic heavy metals and pathogens is simply revolutionary.

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The wait is over for an on-site and on-demand solution to the world's drinking water crisis. Bio-Safe can deliver the promise of pure water to customers and families concerned about their public drinking water. The positive impact worldwide is tremendous.



**Eradicates Pathogens** - Bio-Safe creates a safe, on-demand, aqueous ozone that destroys 99.99% of all pathogens on contact, including viruses, bacteria, molds, and pesticides. Perfect for sanitizing solid surfaces and food prep.

**Acts as a Degreasing Agent** - Besides killing all pathogens, the aqueous ozone solution is an effective degreaser, breaking down the sticky, slippery biofilms that form on solid surfaces.



**Flocculates Heavy Metals** - The aqueous ozone solution is also an agent that flocculates metal compounds such as iron, lead, and manganese. The particulates can be removed by the carbon filter, providing pure drinking water.

# Regulatory Approvals



The World Health Organization states that a cleaning solution with a 650 ORP (oxidation reduction potential) kills 99.99% of all pathogens such as bacteria, viruses, germs, etc. Bio-Safe Technology ranges from 670 to 800 ORP when tested with a calibrated ORP.

*The FDA, followed by other regulatory bodies such as the USDA, EPA, FIFRA, NSF, and OSHA, granted the use of aqueous ozone as "Generally Recognized as Safe" for the sanitization and disinfection of foods. Bio-Safe cleans and controls microorganisms that are common to hard surfaces.*

*Products used to kill viruses and bacteria on surfaces are registered by the EPA as ANTIMICROBIAL pesticides. Sanitizers and disinfectants are two types of antimicrobial pesticides. Bio-Safe technology is an approved ANTIMICROBIAL in both gas and liquid form.*



On June 26, 2001 the U.S. FDA approved the use of ozone as an antimicrobial agent in the gas or liquid phases for direct contact with foods. [2004] 21 CFR 173.368 Ozone may be safely used as an antimicrobial agent in the treatment, storage, & processing of foods, including poultry.



Ozone is a Registered Product. The EPA's Office of Pesticide Programs (OPP) has the responsibility under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) to regulate the registration of antimicrobial products used to control pathogenic bacteria, viruses, and other microorganisms for various uses. The EPA's Antimicrobial Testing Program tests hospital sterilants, disinfectants, and tuberculocides to ensure that products meet stringent efficacy standards. Under FIFRA, a product meeting the EPA standards is issued an EPA registration number.



*Approved as a Hard-Surface Sanitizer. The NSF White Book Listings, Section II - USDA Approval for Hard-Surface Sanitation.*

*USDA - FSIS Directive 7120.1. Since January 2000, the USDA/FSIS has officially accepted ozone as safe and suitable for use in the production of meat and poultry products, in accordance with current industry standards of good manufacturing practice. Reference 21 CFR § 173.368.*

*USDA/National Organic Program (NOP)*

*§ 205.605 Nonagricultural (non-organic) substances allowed as ingredients in or on processed products labeled as "organic" or "made with organic (specified ingredients or food groups(s))" includes ozone, which is one of the synthetic nonagricultural substances that may be used as ingredients in or on processed products labeled as "organic" or "made with organic (specified ingredients or food group(s))" only in accordance with any restrictions specified.*



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