

Ozone Disinfection Services for COVID-19 Impacted Facilities

Rapid & Safe Change Implementation with Minimal Disruption

The COVID-19 pandemic has caused significant disruption and continued uncertainty for supply chain production, manufacturing, critical infrastructure, hospitality, retail, and commercial businesses across the board. Geosyntec Consultants can help.

Ozone (O_3) is widely known to be one of the most effective disinfectants available to destroy bacteria and viruses, including the virus that causes COVID-19. It is regularly used in hospitals as a sterilization method to sanitize equipment. As a gas it can penetrate all areas within a room or enclosure, including crevices, fixtures, fabrics, and the undersurfaces of products or furniture, much more efficiently than manually applied liquid sprays and aerosols. Therefore, with increasing frequency, O_3 is being used to effectively disinfect rooms, buildings and warehouses, as well as production, processing, and storage facilities. Conveniently, this cost effective disinfection process may be implemented using existing ventilation systems or standalone portable units of various sizes.

Ozone is a cost-effective, thorough means to disinfect rooms, buildings and warehouses, as well as production, processing, and storage facilities.

Treatment options include incremental or one-time dosing of low concentration O_3 (0.5 to 2.5 ppm) deployed over a few hours (or within seconds at higher concentrations in enclosures) to effectively destroy COVID-19 on contact. Residual ozone will convert back to oxygen within a short time, allowing the treated space to promptly return to a safe and disinfected condition. By contrast, chlorine-based disinfectants have the potential to form carcinogenic by-products during the disinfection process.



About Geosyntec

Geosyntec has decades of experience, detecting, augmenting, remediating and destroying microorganisms (i.e., viruses and bacteria) using a number of technologies including O_3 generation. Geosyntec's professionals are recognized as leading experts in the fields of indoor air quality, industrial hygiene, and toxicology.

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How We Can Help

Our practitioners have extensive experience responding to environmental health threats such as *Bacillus anthracis* (causative agent of Anthrax) and *Legionella pneumophila* (causative agent of Legionnaires' disease), and other pathogens through consulting services designed to maximize recovery and minimize impact on operations.

Geosyntec can quickly provide an up-front assessment of your facility or processes to determine the optimal O₃ treatment approach and associated health and safety planning. We can then provide the design and manage the implementation and verification of viral disinfection. The treatment can be conducted within the ductwork of existing HVAC systems, in process-specific enclosed areas (both in air and water-phase) or within entire rooms. Examples include:

- Warehouses
- Material handling (production lines and conveyors)
- Air handling systems
- Offices and break rooms
- Fume hoods
- Hotel rooms
- Laboratory spaces where harsh chemicals cannot be used
- Airplane hangars and control towers
- Within various other critical infrastructure

For more information,
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About Geosyntec

With over 1,500 employees in 80+ locations in the US, Canada, UK, Ireland, and Australia, Geosyntec provides the engineering and science needed to respond to this pandemic.

For additional COVID-19-related services, visit
[geosyntec.com/COVID-19](https://www.geosyntec.com/COVID-19)

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