



Electrostatic Sprayers
Model ESP-3000 SERIES
Frequently Asked Questions

1. What is electrostatic disinfecting?

Electrostatic disinfection is a process whereby surfaces are disinfected with electrically charged particles for complete disinfecting coverage.

Electrostatic sprayers charge disinfectants as they pass through the sprayer nozzles, this generates charged droplets that repel one another and actively seek out neutral surfaces, which they stick to and wrap around to coat all sides. The result is a uniform coating of disinfectant on sprayed objects, including hard-to-reach areas that manual disinfectants not able to cover.

2. How does electrostatic disinfection work?

Electrostatic sprayers use positive and negative charges to make disinfecting solutions electromagnetically stick to targeted surfaces. No matter which angle you disinfect a surface from, the charge created by the electrostatic sprayer makes the disinfectant wrap around and cling to the entire surface.

3. How quickly electrostatic disinfection work?

Electrostatic disinfectants begin to work immediately when sprayed and the surfaces should remain wet with applied solutions for at least two minutes to allow the appropriate dwell time. It is recommended to wait a minimum of two hours after application before reentering the space.

4. How much time does electrostatic disinfection take?

The amount of time required to perform electrostatic disinfection services is highly dependent on the size of the area to be cleaned. It's important to follow application instructions in order to allow the solutions to work effectively, and the length of time needed for application will depend on the size of the room and type of facility—for example, an open warehouse will require less time than a typical office with furniture and electronic equipment. If there is a certain level of dirt on surfaces as well, they may be pre-wiped with cleaning solutions prior to spraying.

5. How long does electrostatic disinfection last?

Electrostatic disinfection lasts until the surface is touched again. It's important to note that electrostatic cleaning does not create a protective barrier. It leaves surfaces disinfected until they are next disturbed. For example, if you disinfect a hand railing with an electrostatic sprayer, it will kill any pathogens on the surface until it is next touched, when it will need to be disinfected again.

6. Why should I choose electrostatic disinfection over other methods?

- It's totally touchless - just point and spray for complete disinfection!
- The application is efficient and controlled, helping avoid over spraying or overuse of disinfectants.
- You'll save time - on average there's an 80% time savings over traditional disinfecting methods.
- It covers up to 3 times more surfaces than using sprays/wipes and other disinfecting methods with 360° disinfecting & sanitizing of those surfaces.



7. Does the person spraying have to have any specialized PPE?

While no specialized personal protective equipment (such as a respirator or disposable coveralls) is required, it's best practice to use gloves and wear a mask while using electrostatic sprayer at high PPM concentrations.

8. Must the room be entirely void of people?

It's recommended to have the room empty so you don't spray on or near anyone, and to achieve full disinfection of surfaces.

9. Will the "wrap around" be effective on all surfaces and sizes?

In most all environmental conditions the electrostatic wrap allows workers to achieve 3 times the coverage of a traditional spray bottle. However, in certain environmental conditions (i.e. wind, room humidity, etc.) delivery with the sprayer may not be completely uniform. Wrap should encompass 3-4 inches around each sprayed object. In certain instances, one will have to spray around certain objects and surfaces to obtain full coverage due to size, distance and substrate variations.

10. Is the electrostatic sprayer effective at fighting COVID-19?

Since the outbreak of the Coronavirus the electrostatic sprayer has emerged as a proven, effective way of killing and preventing the spread of the infection. This is due to its virus' killing potential and its ability to create a barrier on surfaces to keep bacteria and virus' for settling.

The electrostatic spray system has also helped fight the mental war against COVID-19. It has allowed hotels to create a safe environment for them guests as they know the chances of catching the virus' at the hotels has been dramatically reduced.

11. Where can electrostatic disinfection be used?

You can use electrostatic disinfection cleaning methods on many surfaces and in many facility types. This cleaning technique is safe to use in hotels, offices, schools, medical facilities, commercial kitchens, and countless other spaces that require a more complete clean.

12. Does electrostatic spray damage any sensitive surfaces?

Electrostatic spray is safe to use around sensitive surfaces, such as wood, upholstery and electronics, however the cleaning solutions should not be applied directly to these surfaces at a close range to avoid risking damage. Space occupants are also typically asked to store certain items prior to disinfection, such as paperwork and clothing.

13. Are there concerns about using it around computers, phones or other electrical devices?

Electrostatic spraying can be used around standard office equipment such as laptops, desktops, keyboards and monitors but should not be applied directly to any sensitive electronics. Before applying, reference the equipment manufacturer's instructions for cleaning and disinfecting



14. Is electrostatic disinfection more effective than other cleaning methods?

Electrostatic disinfection reduces the amount of time it takes to completely disinfect surfaces by up to 50%, so it is an extremely effective method when compared to more traditional cleaning techniques. It is a better way to reach surfaces that are challenging to clean, gives a more even coating of chemical solutions to objects, promotes fast, cost-effective commercial cleaning, and offers many other benefits to today's businesses. Other cleaning methods, such as fogging systems, misters, and manual sprayers take a more passive approach to applying cleaning solutions, which often leads to uneven chemical coverage. They are more likely to leave behind unwanted particles and microorganisms and take longer to manually apply.

15. What are the benefits of continued use?

Electrostatic cleaning kills germs, bacteria, and viruses from surfaces and lasts for a while. However, it won't continuously prevent covered surfaces from becoming re-infected. Some institutions that see higher traffic and use, such as hotels, hospitals and schools, will benefit more from continued or regular use of electrostatic disinfection.



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