



The leader in innovative fitness facility solutions

Comm-Fit Disinfecting with Electrostatic Sprayers: Why It's So Effective?

The evolutionary flexibility of modern and emerging pathogens, viruses and bacteria means we need to add new strategies to manage cross-contamination and microbial spread in many types of facilities well beyond hospitals. Harmful pathogens can live on surfaces for days and will potentially double every 20 minutes given the right food source and ambient temperature. This provides ample opportunity to create situations for transmission and spreading.

Conventional cleaning and disinfecting can manage microbiological load on common touch points. Using common cleaning products and tools are a great first step in disinfecting but it is virtually impossible to disinfect every square inch of surface area. Not only is it prohibitively expensive in terms of labor, but also unrealistic in terms of time available. In reality, germs and bacteria spread into hard-to-reach surfaces faster than we can clean them away. In fact, colony-forming units of bacteria and viruses are hiding in many areas that we cannot access with current methodologies and equipment.

Electrostatic disinfecting, however, provides a broad-spectrum approach to disinfecting a complete surface area and an entire room as we have never seen before. The technology is well-established, with a history of more than 60 years in other areas, including agriculture, automotive, and tanning industries, but it has only recently been applied to surface disinfection.

Electrostatic disinfecting is a way of quickly and evenly coat a surface with a disinfecting solution. This is done by using an electrostatic applicator that gives a negative charge to the disinfecting solution as it exits the nozzle. The charged molecules will repel each other, meaning they will be an even distance from each other, but will be attracted to the surface they are applied to. The charged particles have a charge strength greater than gravity allowing them to directionally target a selected surface very quickly. While the science behind it is detailed, in the simplest of terms, electrostatic disinfecting works by providing a charge to a solution so that it electromagnetically sticks to a targeted surface, providing 360-degree coverage. The same goes for equipment and hard to reach places; if a piece of equipment is heavily trafficked, electrostatic spraying is the most comprehensive way to kill germs. Electrostatics provide no physical cleaning action, i.e., they do not remove physical soil. Rather, the electrostatic device is used to disinfect.

Additionally, electrostatic spraying:

- Reduces the time it takes to disinfect all surfaces and hard-to-reach places by 50% compared to conventional methods
- Improves infection control and the spread of viruses such as Human Coronavirus, influenza, MRSA, HIV and many others
- Applies chemicals in a more efficient, controlled manner, eliminating the dangers of overuse
- Prevents costly financial burdens associated with contagious infection

Electrostatics provide a step that can now effectively augment the current processes that facilities use to protect the public from the spread of community-based pathogens, viruses and bacteria. They can also augment Standard Operating Procedures for facilities that are building out infection control programs. Successful infection control programs rely not just on good process but the right tools to manage the facility.

Comm-Fit's service is to apply an appropriate EPA-registered disinfectant in accordance with the application directions provided by the master label. Comm-Fit is not liable for property damages or bodily injury or sickness arising from use of product.