



ELECTROSTATIC DEVICE SELECTION

WHAT TO CONSIDER BEFORE PURCHASING A DEVICE

Electrostatic sprayers can help facilities disinfect or sanitize large areas in far less time than would be required when using manual trigger spray and wiping methods. These benefits are important, but **without full government regulation in the space, what is the best way to determine if an electrostatic sprayer holds the true capabilities associated with this innovative technology?** Device safety, functionality, and proof that the technology works in practice are all critical factors to consider when evaluating electrostatic sprayers.

TRUSTED	PROVEN	SAFE
<ul style="list-style-type: none"> ▶ EPA Approval ▶ Durable Design ▶ 3rd Party Validation 	<ul style="list-style-type: none"> ▶ Efficacy Testing ▶ Dynamic Testing ▶ Real World Testing 	<ul style="list-style-type: none"> ▶ Evaluations ▶ Certifications ▶ Grounding

TRUSTED RESOURCES		
EPA Approval	All device and chemistry pairings should be tested through the electrostatic sprayer and approved by the EPA in the product's Directions for Use. The EPA states "If a pesticide product's label does not include disinfection directions for use with fogging, fumigation, wide-area, or electrostatic spraying, EPA has not reviewed any data on whether the product is safe and effective when used by those methods."	Questions to consider <ul style="list-style-type: none"> ▶ Does the product have EPA-approved directions for use that allow for use through the electrostatic sprayer? ▶ Do the chemical manufacturer and device manufacturer endorse pairing the products with each other? ▶ Is the device made of durable materials that ensure consistent performance for an extended period of time? ▶ Does the battery's charge deplete over time, leading to reduced electrostatic performance? ▶ Can the device and chemical manufacturer share data created by reputable 3rd parties?
Durable Device Design	Device durability is critical because it ensures consistent electrostatic performance throughout the product's lifecycle. Battery operated devices exhibit reduced performance as the battery loses charge and storage capacity.	
3rd Party Validation	Trusted 3rd party clinical testing gives customers the confidence that the device and chemistry were evaluated without bias from the manufacturer.	

Verify with external resources: Confirm the system's performance by reviewing EPA-approved directions for use and validating efficacy from impartial evaluations by industry experts and clinical practitioners.

PROVEN EFFICACY

Efficacy Testing	<p>The device and chemical manufacturer should provide proof that the device and chemical are efficacious when used together. Additionally, the device and chemical pairing should be endorsed by both manufacturers before deeming safe and effective.</p>	<p>Questions to consider</p> <ul style="list-style-type: none"> ▶ Can the manufacturers share data that shows efficacy when the chemical is sprayed through the device? ▶ Do the chemical manufacturer and device manufacturer endorse pairing the products with each other? ▶ Have the manufacturers tested the products for surface compatibility on hard and soft surfaces when used through the device? ▶ Were the device and chemistry tested in real world environments (e.g. hospitals, schools, vehicles, nursing homes, ambulances, etc.)?
Dynamic Testing Environments	<p>Testing from practical distances on surfaces that vary in size, shape and material composition is important to verify usability throughout your facility. Surface compatibility testing can provide the security to know surfaces in your facility will not be damaged.</p>	
Real-World Testing Practices	<p>Testing in several real-world environments is important for verifying the practical application of a chemical through an electrostatic sprayer. Additionally, lab testing is often done under ideal scenarios, while real-world testing incorporates the practical challenges that are common for many users.</p>	



Research published findings: Before believing claims made by the manufacturers, understand that device and chemical efficacy must be evaluated in tandem with each other to prove you are receiving the desired efficacy.

SAFE DESIGN

EPA Safety Evaluations	<p>The EPA states that they have “not evaluated the product’s safety and efficacy for methods not addressed on the label. A disinfectant product’s safety and effectiveness may change based on how you use it.”</p>	<p>Questions to consider</p> <ul style="list-style-type: none"> ▶ Do the product’s directions for use include spraying through an electrostatic device with clear PPE recommendations for each paired chemistry? ▶ Do the chemical manufacturer and device manufacturer each have safety evaluations that include the chemistry being sprayed through the device? ▶ Has the device manufacturer obtained proper and reputable certifications? ▶ Is the device grounded through a cord?
Device and Chemical Certifications	<p>Certifications provide assurance that a device or chemical has been evaluated based on industry accepted standards and meets the minimum benchmarks for employee and environmental safety.</p>	
Efficient Grounding Apparatus	<p>All electrostatic devices require a grounding connection to achieve electrostatic benefits. The grounding connection can be achieved through an electrical cord. Without a grounding connection through a cord, an electrical current may pass through the person using the device.</p>	



Ensure safety for yourself and your employees: Before testing a device for ease-of-use and electrostatic performance, research the device and chemical manufacturers’ directions for use, safety standards and certification status.