KNIGHT®

Trusted Solutions,
Making Cleaning Easy™

Innovative Tools for A Cleaner World

STRATUS PRO™

Electrostatic Sprayer

www.KnightStratus.com

The demands placed on cleaning staff today are unlike ever before. Budgets are tight. Yet, the amount of surface area to clean and disinfect, as well as the frequency of performing these actions is growing exponentially. Tools to increase productivity and effectiveness are needed and in demand!

MAXIMIZE YOUR PRODUCTIVITY

● Manhours to apply product to 50,000 sq/ft.

Disinfect More Surfaces

- Disinfect 300 sq. ft./minute
- 1 1/2 hours of continuous use before needing to refill the solution.
- Quiet operation
- Durable, maintenance free electric diaphragm pump for delivery of chemical solution.
- 10-foot hose reaches hard-to-reach spaces.

Cover Large Spaces Fast

Athletic Facilities – Disinfect / sanitize team locker rooms, wrestling mats, bleachers ball racks, quickly and thoroughly.

Hotels – Apply to room surfaces prior to cleaning to protect employees. Apply again after a thorough clean as you exit finishing with the door handle to protect guests.

Nursing Homes – Spray chairs, hallway rails, chairs and tables in dining rooms, as well as all contact surfaces within the patient rooms.

Schools – Cafeterias, lockers, desks, tables, door.

What is Electrostatic Spraying

Electrostatic spray is electrically charged as the liquid and air exits the gun nozzle. This charge influences the droplet shape to be consistent and the spray pattern to be evenly dispersed throughout. This results in more effective sanitization as surfaces receive an even coating for consistent contact time across the entire surface. The like-charged droplets repel each other as they travel through the air to prevent clumping and seek open areas across a surface to contact. The charged particles are attracted to grounded surfaces and will completely wrap around surfaces to sides opposite from the direction of spray.

Why Use an Electrostatic Sprayer?

Traditional methods of cleaning include buckets of a solution or spray bottles utilizing rags and mops. Buckets with a diluted disinfectant are contaminated as soon as a mop or rag is dipped into the solution. The disinfecting properties can be neutralized once the organic soil load exceeds 5%. Spray bottles deliver an inconsistent spray with some surfaces receiving excessive amounts of product resulting in puddling and other areas not receiving any coverage at all.

With Knight's Stratus Pro™, the solution being sprayed from the 2.8-gallon tank is always clean, fresh, and therefore effective from first to last spray. The combination of a quiet air compressor and an industrial electric diaphragm pump assures an even spray pattern that will reach surfaces at least 5 feet away and up to 2 feet across.

WHAT'S THE KNIGHT DIFFERENCE?

Chemical manufacturers have been relying on Knight's engineering expertise for over 48 years. Made of thick 16-gauge stainless steel, Knight's Stratus Pro is built for the commercial environment. The patented mixing chamber combines pressurized air and diluted chemical within the gun prior to the nozzle to provide consistent droplet size and velocity to maximize the electrostatic effect and enhances the wrapping capability of the spray. A rocker switch within thumb's reach on the gun controls the operation of the air and liquid pumps for convenience and ease of operation eliminating the need to constantly hold down a trigger button. The ten-foot hose and 4-inch wheels allow easy maneuverability and the ability to reach tight spaces.

Using industry leading Phase Doppler Interferometer analysis equipment, Knight, LLC has done extensive research of the spray pattern of the Stratus Pro. Data collected includes droplet number densities, droplet size, and velocity at any point within the spray area. Much of this data is required by the EPA to amend the labels of registered products for electrostatic spray applications. It is also an important tool for optimizing our spray pattern to maximize wrap and assure ideal surface coverage.

Stratus Pro Spray Particle Analysis

Droplet Size, microns (VMD) @ spray distance from nozzle					
12 in.	**18 in.**	**24 in.**	**36 in.**	**48 in.**	**60 in.**
43.4	45.5	52.2	57.3	58.0	54.3

Activation at gun

On / Off Switch (Electrostatic)

300 sq. ft. / min.

50 feet

4.0 oz./min.

2.8 gallons

Only 78 db

Reduce Cost

- No wasted product. The solution in the tank stays clean.
- Wide tank opening makes it easy to use ultra-concentrated product from a dispenser (don't pay for water). But, if you prefer ready to use products, they are easy to pour into the large opening without making a mess.
- Maximize labor productivity
- Use less product. The electrostatic charged spray applies as an evenly dispersed coating across a surface with no puddles and wasted product.

Safety Certifications

UL LISTED

** UL listing has been applied for and is pending.

Designed For Operational Ease

1. On/Off Switch—Nozzle
2. Solution Prime Switch
3. Electrostatic On/Off
4. Circuit Breaker
5. Main Power Switch
6. Drain Valve

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