

# Electrostatic Disinfection Machine

## Introduction

Disinfection is the process to destroy or inhibit the growth of disease causing microorganisms thriving on the living and non-living surfaces. Surfaces, which are not cleaned properly and disinfected regularly, can become a hotbed for pathogens growth. Fruits and vegetables, poultry, livestock, food commodities, healthcare, public transport, airports and railways, hotels and catering, work place and offices are the objects/places, where harmful microorganisms makes people vulnerable to diseases. The conventional methods of disinfection such as manual washing and cleaning consumes more material with lesser efficiency and increased load of chemical waste in the environment.

The Electrostatic Disinfection Machine, based on the electrostatic principle, produces uniform and fine spray droplets of disinfection material in the range of 10-20  $\mu\text{m}$ . Due to the small size of droplets, the surface area of spray droplets increases which enhances the interaction with the harmful microorganisms. Charged droplets cover the directly exposed and obscured surfaces uniformly with increased efficiency and efficacy. Therefore, it kills or inhibits the growth of pathogens. The machine uses very less disinfection material as compared to conventional methods, which helps to save natural resources and negligible increase of chemical waste in the environment.

## Features

- Globally competitive, at par with international standards.
- Cost effective solution with higher efficiency.
- Charged droplets are more effective in disinfecting the surfaces/objects.
- Produces fine spray droplets which covers surfaces uniformly due to wraparound effect.
- Less amount of material is required.
- Easily accessible in remote areas due to portable size.
- Low power consumption and maintenance.
- Easy and safe to operate.

## Specifications

- |                             |                       |
|-----------------------------|-----------------------|
| ▪ Flow Rate (Present Model) | : 110ml/min           |
| ▪ Droplet Size              | : 10-20 $\mu\text{m}$ |
| ▪ Air Pressure              | : 2-3 Bar             |
| ▪ Operating Voltage         | : 1.07 kV             |
| ▪ Spray Coverage            | : 25°-35°             |



- Number of Nozzles : Single headed
- Tank capacity : 10 litres
- Material usage : Reduced by 50-60%
- External Air Supply : Required
- Battery usage hours : 10-12 hours

## Benefits

- Minimum losses
- Uniform coverage
- 360° area coverage
- 7-8 times more efficient
- Target specific
- Applicable for all fluid types

## Applications

- Fruits and vegetables
- Healthcare
- Public transport
- Poultry
- Airports and railways
- Hotels and catering
- Workplace and offices

