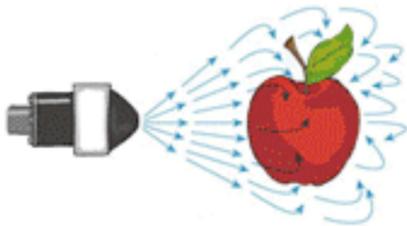
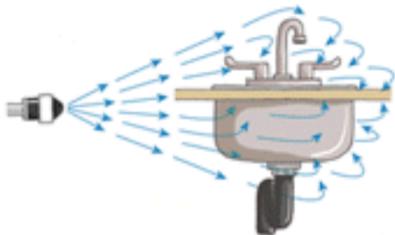


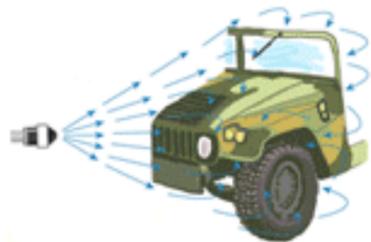
Electrostatic Sprayer



Produce



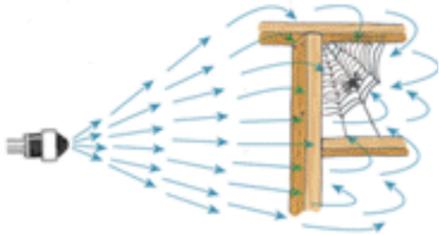
Medical facilities and Devices



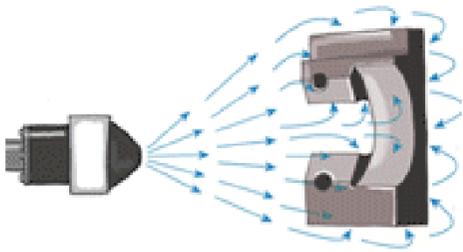
Decontaminating Equipment and Commercial Vehicles



Transportation



Pest Control



Manufacturing



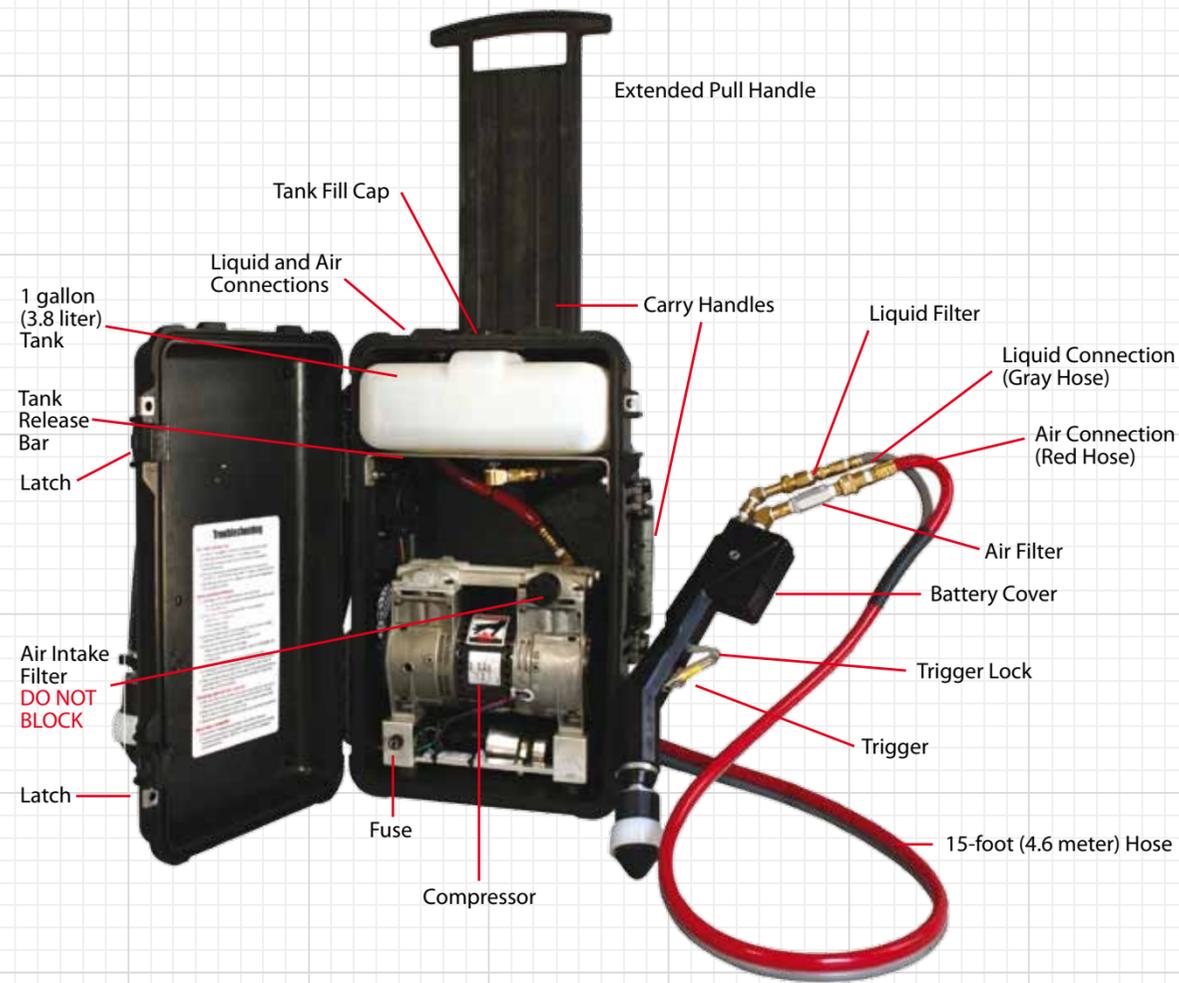
Health Watch

Health Watch-Medical
New Zealand Infectious Disease Authority.

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Introducing the Electrostatic Sprayer



How the Health Watch Medical Electrostatic Sprayer Works!



The heart of the *Health Watch Medical* sprayer system is the Max-Charge induction electrostatic nozzle. The original induction charging air-assisted nozzle was invented by Dr. Ed Law at the University of Georgia.

Induction charging can produce a very high charge without using high voltages. Other types of charging methods, such as contact charging, use voltages that are much too high to be safe or reliable in dirty environments.

Air and liquid enter separately at the rear of the nozzle. The air moves at near-sonic speed through the nozzle and impacts the liquid at the tip.

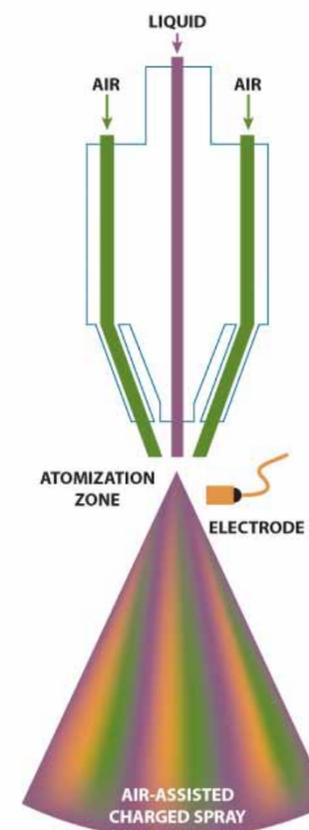
This causes the formation of optimum size spray droplets of 30 to 40 microns in diameter. The air pressure needed is only 20 to 90 psi. At these low pressures the nozzles last a long time.

As the spray is atomized the liquid passes an electrode inside of the nozzle. Electrons are induced onto the liquid stream and the droplets leave the nozzle with a high negative charge.

The droplets are carried in an air stream towards the target. The closer the charged droplets get to the target, the stronger the electrostatic forces of attraction.

Charged droplets can travel long distances without losing their charge. The droplets follow electrical field lines of force and wrap around the target. Once droplets hit the target they immediately lose the electrical charge.

The Max-Charge nozzle design allows the use of many types of spray mixes, including heavy powders mixed in all types of liquids, and the nozzle is easy to disassemble for cleaning.



“It’s that simple”

Health Watch Medical is able to manufacture many types of sprayers for agricultural and commercial applications. No matter what you are spraying, electrostatic means better spray coverage!

If you are a grower of any agricultural crop you should take a look at *Health Watch Medical* technology to reduce costs, help the environment, and produce a better quality crop.

For disinfection and sanitization, an *Health Watch Medical* electrostatic sprayer can deliver a consistent coating of the disinfectant chemical of choice and get the product into tiny cracks, crevasses, and hidden surfaces that would otherwise be missed. An *Health Watch Medical* sprayer can prove its worth by minimizing human suffering and saving hours lost from work or school due to illness.

To view demonstration video please visit www.healthwatch-medical.co.nz

