



WHAT IS ELECTROSTATIC SPRAYING?

AIR AND LIQUID ENTER THE REAR OF THE NOZZLE SEPARATELY. THE AIR MOVES THROUGH THE NOZZLE UNDER PRESSURE AND MEETS THE LIQUID AT THE NOZZLE TIP, CAUSING THE FORMATION OF SPRAY DROPLETS THAT ARE 30 TO 60 MICRONS IN DIAMETER. AT THE TIP OF THE NOZZLE IS A TINY ELECTRODE WHICH APPLIES AN ELECTRICAL CHARGE TO THE SPRAY. THE ATTRACTION TO THE TARGET'S SURFACES RELATES TO COULOMB'S LAW, WHICH STATES THAT ANY TWO CHARGED OBJECTS WILL CREATE A FORCE ON EACH OTHER. THE CHARGE ON THE DROPLETS, THOUGH SMALL, PULLS THE SPRAY TOWARDS THE TARGET AT 75 TIMES THE FORCE OF GRAVITY. THE SPRAY DROPLETS CAN REVERSE DIRECTION, MOVING AGAINST GRAVITY, TO COAT ALL SIDES OF AN OBJECT.

HOW DOES IT WORK?



STEP 1 - AS THE SPRAY IS ATOMIZED THE DROPLETS PASS AN ELECTRODE INSIDE OF THE NOZZLE. ELECTRONS ARE INDUCED ONTO THE DROPLETS AND THEY LEAVE THE NOZZLE WITH A HIGH NEGATIVE CHARGE.



STEP 2 - THE DROPLETS HAVE A FORCE OF ATTRACTION OF 75 TIMES THAT OF GRAVITY ALLOWING THEM TO REVERSE DIRECTION, AGAINST GRAVITY TO COAT HIDDEN SURFACES THAT WOULD NORMALLY BE MISSED.



STEP 3 - THE DROPLETS ARE CARRIED IN AN AIR STREAM TOWARDS THE TARGET. THE CLOSER THE CHARGED DROPLETS GET, THE STRONGER THE ELECTROSTATIC FORCE.



ELECTROSTATIC DISINFECTING SYSTEM

THE ELECTROSTATIC DISINFECTING SYSTEM PROVIDES IFC DEPARTMENTS WITH A PROVEN SUPERIOR PROCESS TO KILL A WIDE RANGE OF VIRUSES AND BACTERIA SUCH AS C-DIFF SPORES, MRSA, NOROVIRUS, LISTERIA HEPATITIS B AND C, HIV, E. COLI, STAPHYLOCOCCUS AUREUS, PSEUDOMONAS AERUGINOSA, AND MANY MORE WHILE ELIMINATING ODORS. OUR BROAD SPECTRUM DISINFECTANT AND SANITIZER WON'T CONTRIBUTE TO THE FORMATION OF MUTATING "SUPER BUGS," IS NON-IRRITATING TO THE SKIN AND NON-CORROSIVE TO TREATED ARTICLES.

HEALTHCARE-ASSOCIATED INFECTIONS (HAIs) ARE A MAJOR GROWING PROBLEM IN THE UNITED STATES. CLEARLY, THERE IS AN URGENT NEED FOR A MORE EFFECTIVE, COMPREHENSIVE APPROACH TO INFECTION CONTROL TO PROTECT EVERYONE IN HEALTH CARE FACILITIES FROM NOSOCOMIAL INFECTIONS. WITH THE EMERGENCE AND SPREAD OF POTENTIALLY DEADLY ANTIBIOTIC-RESISTANT SUPERBUGS SUCH AS MRSA AND C-DIFF, EFFECTIVE INFECTION CONTROL IS MORE NECESSARY THAN EVER BEFORE.

TOUCHLESS INFECTION CONTROL ENABLES HEALTHCARE PROFESSIONALS TO QUICKLY AND SAFELY DISINFECT PATIENT CARE SURFACES WITHOUT BEING EXPOSED TO TOXIC FUMES OR LIQUIDS REPRESENTING SUPERIOR BEST PRACTICES OF INFECTION CONTROL PROTECTING STAFF AND PATIENTS FROM THE MOST VIRULENT MICROORGANISMS AND UNSAFE CHEMICALS.

ELECTROSTATIC DISINFECTING SYSTEM

LESS CHEMICAL WASTE- TESTING BY FOUR MAJOR UNIVERSITIES SHOW 300% BETTER SPRAY PENETRATION AND COVERAGE ONTO HIDDEN AREAS OF DENSE FOLIAGE REACHING THE UNDERSIDE OF THE TARGET AND OTHER HIDDEN AREAS.

KILLS VIRUSES AND BACTERIA 1,000 TIMES BETTER THAN UV LIGHT, AND 300 TIMES BETTER THAN BLEACH.

ENVIRONMENTALLY SOUND-REDUCING CHEMICAL WASTE AND USING LOW "0" TOXICITY CHEMICALS MAKING YOUR SPRAY ENVIRONMENTALLY SAFE AND EFFECTIVE.

LEADING HEALTHCARE INSTITUTES NOW CHOOSE TOUCHLESS INFECTION CONTROL SOLUTIONS TO MAXIMIZE DISINFECTION EFFORTS.

