



Electrostatic Discharge Mitigation in Data Centers



PCS Biosecurity

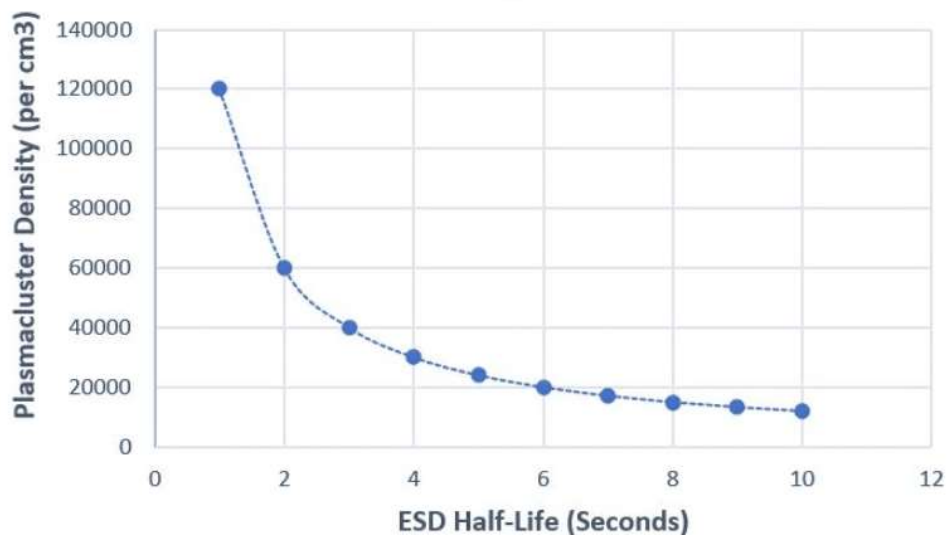
PLASMACLUSTERING IS MORE EFFECTIVE AT MITIGATING ELECTROSTATIC DISCHARGE THAN TRADITIONAL HUMIDIFICATION



HOW IT WORKS

Proprietary PCS Biosecurity plasmaclustering technology works to deliver charged particles in a manner which completely envelope data center servers. This field of charged particles neutralizes any electrostatic build-up, thus protecting your data center from harmful electrostatic discharge (ESD). PCS Biosecurity products are designed and implemented to deliver a target concentration of 50,000 plasmaclusters/cubic centimeter. At this concentration electrostatic potential will be mitigated in approximately 2.4 seconds.

Plasmacluster Density vs. ESD Half-Life





FREQUENTLY ASKED QUESTIONS (FAQ'S)

IS THE TECHNOLOGY SAFE FOR HUMANS?

Yes. Concentrations of charged particles or plasmaclusters, occur in nature in areas such as waterfalls and beaches. PCS Biosecurity is simply harnessing this naturally occurring phenomenon.

IS THE TECHNOLOGY CURRENTLY BEING UTILIZED?

Yes. Plasmaclustering technology has been utilized for electrostatic discharge mitigation in electronics manufacturing for over 20 years. PCS Biosecurity's patented process allows this tech to be scaled to serve data centers.

HOW DOES THE TECHNOLOGY COMPARE TO EXISTING ESD MITIGATION PROCESSES?

Current designs utilize humidity distributed via the HVAC system to mitigate ESD in data centers. These designs require large amounts of energy and fail to remove ESD potential between some dissimilar plastics, vinyl, and other composites. Plasmaclustering designs offer greater ESD potential mitigation when compared to humidification, require a fraction of the energy, and are non-corrosive.

CAN PCS BIOSECURITY EASILY RETROFIT EXISTING DATA CENTERS?

Yes. PCS Biosecurity has ESD mitigation solutions tailored to meet the needs of existing data centers as well as future data centers.

WHAT SEPARATES PCS BIOSECURITY?

PCS Biosecurity has patented the deployment process allowing data centers to be completely enveloped by a plasmacluster field.

INNOVATIVE ESD CONTROL

PCS Biosecurity aspires to become the leader in electrostatic discharge (ESD) mitigation by offering patented, innovative solutions that will revolutionize electrostatic discharge mitigation processes globally.

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SECURING YOUR DATA CENTER:

Installing proprietary PCS Biosecurity equipment in your data centers will provide the ultimate security against electrostatic discharge by way of plasmaclustering technology.

