

Specification of Electrostatic Gun - Part Number 92001

Effective in neutralizing static charges on virtually any surface and lends itself to a host of other applications.

The Electrostatic Gun is an antistatic "generator" which has numerous applications in any microscopy laboratory. Just squeeze the "trigger" of the gun and a steady stream of ions is released. The "magic" comes from two powerful piezoelectric crystals and a patented compression trigger. Originally developed for removing dust from "vinyl" and before that, normal "phonograph records". In later years the antistatic gun was discovered to have great applicability for use in a photographic darkroom to remove dust from film and negatives. After that, a wider range of applications came into being when people running SEM labs found out that it was also ideal for eliminating dust from critical samples or other critical surfaces when the dust attraction was being caused by electrostatic charge. Others have reported that certain insulating specimens, when treated this way, can actually be viewed (admittedly briefly) by SEM without the need to apply further coating.

Each unit has a "two cycle" type of operation. When the trigger is squeezed, positive ions are generated and when the trigger is relaxed, negative ions flow. This means that it is possible to induce a charge on a neutral surface using the gun. If the trigger is squeezed, and the gun is removed from the surface before allowing the trigger to return to its original position, a positive charge will be induced. Similarly, pointing the gun at the surface only for the release of the trigger will induce a negative charge

How much charge is given off? Each squeeze of the trigger results in a discharge which when stated in units of charge is 1.5 Coulombs.

How long will it last? One can reasonably expect on the order of 10,000 "squeeze cycles" during the lifetime of the unit. No batteries or electrical supply required. Static reduction lasts for hours. No polymer residue is left behind.

Dimensions: 4.5" x 6.5" (114 mm x 165 mm) **Weight:** 135g (0.3 lbs)