

Developed for the United States Postal Service, Machine Depot Repair Service, Model DV/3ESD1 is a state-of-the-art ESD Safe Environmental Sanitizing Vacuum Cleaner. The product is capable of vacuuming and containing particles to .3 microns. The HEPA filtration is 99.97% efficient at .3 microns.

The DV/3ESD1 has an all-steel chassis construction, enclosed vacuum cleaning system, featuring a 2-Speed, 1.7 Peak Horsepower (100 CFM) Motor with 12 ft. grounded power supply cord, a .3 micron quadruple filter system (disposable triple layer .3 micron filter bag assembled with rubber diaphragm and peel-off pressure sensitive bag seal, permanent cloth bag and .3 micron HEPA certified filter.

The DV/3ESD1 Quadruple Filtering System Includes:

- 1) A unique 0.3 micron 3-ply disposable filter bag, which may be sealed with an adhesive backed pressure sensitive bag seal located on the top of the bag. After the contaminated bag is sealed it is completely disposable.
- 2) A cloth filter bag.
- 3) Charcoal foam filter.
- 4) A HEPA CERTIFIED fourth stage filter mounted in front of the motor.

The DV/3ESD1 includes a special set of ESD Safe Static Dissipative Vacuum Tools; 3 ft. to 6 ft. "Stretch" static dissipative Polyvinyl chloride (PVC), flexible hose, static dissipative Polyvinyl (PVC) Crevice Tool, static dissipative Polyvinyl (PVC) Dust Brush, Shoulder Strap and 5 extra triple layer .3 Micron disposable bags.

Technical Specifications

HOSE SPECIFICATIONS:

The name of the material used on the hose is PVC (Polyvinyl chloride).

Hardness: 76A

Specific Gravity: 1.27

Tensile: 2240

Elongation: 330

Surface Resistivity: 6.9×10^9

Volume Resistivity: 2.2×10^9

VACUUM CLEANER ATTACHMENT SPECIFICATIONS:

PermaStat 100 Polypropylene (PP) Permanently Anti-Static ESD Protection Properties & Average Values of Injection Molded Specimens

PermaStat 100:

TEST STANDARDS:

Test Specific Gravity 0.94

ASTM D-792

Electrical Properties:

Volume Resistivity 10^9 - 10^{10} ohm-cm ASTM D-257

Surface Resistivity 10^{10} - 10^{11} ohm/sq ASTM D-257

Static Decay: 2sec FTMS-4046.1;

Military Spec: MIL-PRF-81705D

Techni-Stat Wrist Strap Specifications:

The DV/3ESD1 vacuum set includes a Techni-Stat “No Doubt Wrist Strap” Ground Cord Set.

The one-size fits-all, adjustable 100% silver-coated, monofilament, knitted nylon, wrist strap is highly conductive with a 5/8” non-conductive nylon inner-surface. The inner-surface has a surface resistivity of 10^3 MegaOhms/square inch.

The Wrist-Strap connects to a 6-foot strain relief cord that features a 1 MegaOhm built-in resistor and attaches directly to vacuum.

Electrical Properties:

Outer Band: Insulation resistance between inner and outer surfaces of strap is greater than 100 MegaOhms at 500 V DC

Inner Band: 160 Ohms

Elasticity:

When stretched to 200%, strap returns to normal size after 20,000 cycles. Elastic ratio: 2.5:1.

Snap:

Tested to MIL STD 202, Method 101

Meets or Exceeds:

EN 100 0156/1

IEC 61340-5-1

ESDA S1.1

The entire vacuum unit is housed in a high-density Polypropylene (HDPE)

Carry Case with 2 latches and deep bottom attachment tray.

Case Dimensions: (L) 21-1/2" x (W) 12-1/4" x (H) 13-1/4".

UL-CUL Listed; 7.25 Amps; 833 Watts; 100 CFM; 1.7 Peak HP;
85" water lift (sealed suction measurement); 115V; 60 Hz.

MADE IN U.S.A.