

3M™ Ionized Air Gun 980/980E

The Ionized Air Gun 980/980E is an excellent tool for blowing particulate contaminants off of most surfaces, even from static-sensitive products. It releases a constantly balanced stream of compressed ionized air or gas that neutralizes static charge that attracts particulates to a surface. A charge of 1000 volts is reduced to less than 100 volts in less than a second. The loose particles can then be easily blown away.

Self-balancing, maintenance-free

The unique ionization system used in the Ionized Air Gun 980/980E is completely self-balancing; no adjustment or calibration is needed. It maintains balance to within <60V of 0V (at a distance of 6 inches). The unit is also virtually maintenance-free; all that is required is occasional cleaning of the housing and the emitter points.

Unique ergonomic design

The Ionized Air Gun 980/980E was designed to be a lightweight, comfortable, and easy-to-use ionizing air gun. All components of the system – the hand unit and power supply, air hose and power line, and the mounting console – are extremely lightweight. Unlike the heavy power supplies of some systems that must be tied to the hand unit by means of a bulky high-voltage cable, the compact power supply of the Ionized Air Gun 980/980E is actually molded into the housing of the air gun. The power to the hand unit is supplied via a thin, low-voltage wire that runs from the console inside the flexible polyurethane air hose. Thus, the Ionized Air Gun 980/980E has only a single flexible, lightweight hose between the base and the gun, making it easier to handle. The total weight of the hand unit and the 7' long air/power hose is only 12 ounces. The nozzle on the tip of the gun is specially designed to provide efficient, uniform delivery of ionized air while minimizing audible noise and air or gas usage.

Safe, low-voltage power

The Ionized Air Gun 980/980E uses safe, efficient, low-voltage power. Each unit includes a transformer that converts line power from a standard outlet (120V for the 980, 230V for the 980E) to 24 volts. Ionized Air Gun 980/980E units meet existing industry requirements and carry the UL, C-UL, and CE marks, as appropriate.

Durable Construction

The hand unit and console are molded of rugged, dissipative polycarbonate for exceptional impact resistance. The static-dissipative properties make them safe to use around sensitive electronic components. The air hose is made of tough, flexible polyurethane and is also static-dissipative.

Convenient Mounting Console

The mounting console contains connections for the air lines and power lines and houses the filter attached to the air line. It weighs just 11.5 ounces, measures 8.5”L x 3.0”W x 1.6”H (21.6 x 7.6 x 4.1 cm), and is easily mounted in a convenient location at the workstation. Hardware is included for either permanent (using a metal backplate) or semipermanent (using hook and loop type strips) mounting.

Replacement/Optional Parts

The air line filter and the emitter points at the tip of the hand unit are the only replaceable parts of the Ionized Air Gun 980/980E. When necessary, each can be replaced in just seconds without any special tools.



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Typical Properties

Source power	120VAC (980), 230VAC (980E)
Input Power	24VAC, < 10W (both models)
Ion output	Steady state DC
Performance (per ANSI/ESD-S3.1)	
Discharge time (1000V to 100V)	< 1 sec @ 6 in, 30 psi
Ion balance	<60V
Audible noise	73 dBA @ 1 m, 30 psi
Ozone	< 0.005 ppm (24 hr accumulation)
Console	
Construction	Dissipative rigid polycarbonate
Size	8.5 L x 3.0 W x 1.6 H in (21.6 x 7.6 x 4.1 cm)
Weight	11.5 ounces (326 g)
Gas input	20-65 psi, clean dry air or nitrogen
Air fittings	Standard 1/4 in industrial
Power connections	RJ-11 telephone snap-in connector

Typical Properties

Hand Unit	
Construction	Dissipative rigid polycarbonate
Size	8.0 L x 3.0 W x 1.0 D in (20.3 x 7.6 x 2.5 cm)
Weight	12.0 oz (341 g) with 7 ft air hose
Emitter points	Tungsten alloy
Air Hose	
Construction	Dissipative flexible polyurethane
Size	7 ft long, 0.38" OD
Filter efficiency	99.9% for 0.1 micron particle size

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