

Simco® Ionization Solutions Designed For Critical Applications

Simco has been solving electrostatic charge control problems for more than 70 years. You've come to expect the best in ionization products from Simco, the world's largest manufacturer of ionization equipment. Simco's comprehensive product line incorporates years of research, engineering and field experience to deliver effective solutions for semiconductor, electronics assembly, cleanroom and tool applications. You can be sure of receiving maximum performance and reliability.

Simco capabilities are unique. Our multinational experience and capabilities allow us to deliver either AC or DC corona technology and provide the ability to recommend the product technology best suited to your application needs.

Simco is a resource with the ability to deliver a comprehensive understanding of electrostatics to your door, anywhere in the world. And we provide effective ionization solutions.

Our experts are equipped to determine the source of your problem and recommend solutions based on industry best practice. Our capability in the design, development and manufacture of electrostatic charge control equipment is second to none. Contact Simco for an assessment of your needs. Depend on Simco to enhance the yield and quality of your operations.

Additional company information and product specifications are available (.pdf format) for viewing, download and printing by visiting www.simcoION.biz.



Top Gun™ Ionizing Air Gun

Features

- Lightweight, hand-held
- Balance ±15 V
- Compressed air or nitrogen
- Adjustable airflow control

Description

Top Gun is a high-reliability ionizing air gun for electronics manufacturing applications. Balanced to 0 ±15 V, the Top Gun features high blow-off force to provide efficient cleaning and rapid static discharge. The gun body is static dissipative, lightweight, durable and features a light-touch trigger. All control functions are built into the handle for easy operator use: airflow control, ion balance adjustment, and a two-level LED to indicate both power on and active ionization. The Top Gun features inherent balance, reliable performance and low maintenance.

Flow Rates: Top Gun & orION™ products
 4.1 Nm³/h @ 207 kPa.....(2.4 scfm @ 30 psi)
 12.6 Nm³/h @ 690 kPa.....(7.4 scfm @ 100 psi)

Part Numbers

Top Gun, 7 ft. cable/hose assembly 120 V,	4005105
50/60 Hz.....	
Top Gun, 7 ft. cable/hose assembly 230 V,	
50/60 Hz CE-EU.....	4005106
Top Gun, 7 ft. cable/hose assembly 230 V,	
50/60 Hz CE-UK.....	4009894
Top Gun, 14 ft. cable/hose assembly 120 V,	
50/60 Hz.....	4006599
Top Gun, 14 ft. cable/hose assembly 230 V,	
50/60 Hz CE-EU.....	4006600
Top Gun, 14 ft. cable/hose assembly 230 V,	
50/60 Hz CE-UK.....	4009895



Top Gun™ Sidekick Compressed Gas Ionizer

Features

- Hands-free operation
- Flexible positioning

Description

The Sidekick delivers all the performance of Top Gun but is mounted on a flexible neck that frees operator hands during assembly and manufacturing processes. A foot pedal switches both ionization and airflow. The flexible mount allows the operator to focus the ionization airflow where it is needed. Includes a steel bracket for bench mounting.

Part Numbers

Top Gun, Sidekick (hands-free stand) 120 V,	
50/60 Hz.....	4006992
Top Gun, Sidekick (hands-free stand) 230 V,	
50/60 Hz CE-EU.....	4007005



orION™ Ionizing Air Nozzle

Features

- Compact design
- Easy installation
- Fast charge neutralization
- Simple, reliable operation
- Low maintenance

Description

The orION and orION Sidekick ion air nozzle systems combine air ionization with a compressed gas stream for "hands-free" fixed position ion delivery. Each system is ideally suited for use with automated manufacturing processes and product assembly. The orION and orION Sidekick provide the ability to clean and neutralize static charged items and greatly reduce the attraction of particulate. A filter at the exit of the nozzle ensures delivery of contaminate-free gas during the cleaning and static neutralizing operation.

Part Numbers

orION, 7 ft. cable/hose assembly 120 V,	
50/60 Hz.....	4009045
orION, 7 ft. cable/hose assembly 230 V,	
50/60 Hz CE-EU.....	4009046
orION, 7 ft. cable/hose assembly 230 V,	
50/60 Hz CE-UK.....	4009220
orION Sidekick (hands-free stand) 120 V,	
50/60 Hz.....	4009245
orION Sidekick (hands-free stand) 230 V,	
50/60 Hz CE-EU.....	4009246
orION Sidekick (hands-free stand) 230 V,	
50/60 Hz CE-UK.....	4009449



An Illinois Tool Works Company
 SIMCO® Ionization for Electronics Manufacture

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**PulseGun™ 5
PulseGun™ 8
Ionizing Air Guns**

Features

- Utilize ionizing blow-off power to rapidly neutralize static charge in seconds

Description

The PulseGun 5 (PG5) is constructed of black Delrin® and is designed for cleaning and assembly applications where constant or extended use is required. The PulseGun 8 (PG8) is a cleanroom ion gun with replaceable electrodes designed for clean area applications. An internal 0.02-micron filter eliminates particles in the gas supply line before they exit the nozzle. The PulseGun measures 32 x 146 mm (1.25" Dia. x 5.75" L) and weighs 397 g (14 oz.). Airflow specifications for the PulseGun are as follows:

Flow Rates

- PG5
- 2.5 Nm³/h @ 69 kPa (1.5 scfm at 10 psi)
 - 22 Nm³/h @ 690 kPa (13.0 scfm at 100 psi)

PG8

- 1.4 Nm³/h @ 69 kPa (0.8 scfm @ 10 psi)
- 20 Nm³/h @ 690 kPa (11.5 scfm @ 100 psi)

Part Numbers

- PG54005149
PG84005150



**Pulse-Point™
Ionizing Air Nozzle**

Features

- Utilize ionizing blow-off power to rapidly neutralize static charge in seconds

Description

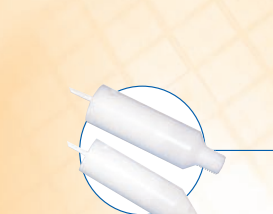
The AN Pulse-Point Air Nozzle fits at the end of a compressed air line to provide focused continual ionization. Its small footprint enables the nozzle to be mounted on equipment in physically restrictive areas. The Pulse-Point Nozzle comes complete with two caps to allow you to choose either in-line (1/4" npt) or exit point installation. It measures 25 x 86 mm (1" Dia. X 3.4" L) and weighs 170 g (6 oz.). Airflow specifications for the Pulse-Point nozzle are as follows:

Flow Rates

- 1.7 Nm³/h @ 69 kPa(1.0 scfm at 10 psi)
23 Nm³/h @ 690 kPa(13.5 scfm at 100 psi)

Part Number

- AN4009921



**AFC-2
AirFlow™ Controller**

Description

The AirFlow Controller provides power and control of ion balance to the PulseGun or PulsePoint Nozzle. The AFC-2 has independent bipolar power level controls and pulse or steady state DC operating modes with polarity indicator lights. A silent gas flow switch incorporated into the controller provides power to the ionizer only when airflow is active. All controls are located on the front panel to accommodate mounting above or below any work area. The AirFlow Controller measures 145 x 125 x 40 mm (5.75" L x 5.0" W x 1.65" D) and weighs 700 g (22.5 oz.).

Part Numbers

- AFC-24005186
AFC-2/2304005187

Kits

PulseGun and Pulse-Point air nozzles — Include the designated gun or nozzle and an AFC-2 controller.

115V, 60 Hz

- PG5 - PulseGun 5 Ion blow-off gun.....5050870
AN - Pulse-Point and In-Line ion air nozzle.....5051205

230V, 50Hz CE

- PG5 - PulseGun 5 Ion blow-off gun.....5050876
AN - Pulse-Point and In-Line ion air nozzle.....5051206



**FMX-003
Electrostatic Fieldmeter**

Features

- Graphic digital display of charge
- Self-storing plate for ionizer measurement
- Auto-ranging digital display
- HOLD function

Description

Model FMX-003 Electrostatic Fieldmeter is a hand held, compact, portable instrument for measuring electrostatic charge. The FMX-003 measures positive and negative polarity electrostatic charges to 20 kV (19,999 V) at a distance of one inch. Two LED guide ring lights converge at the proper distance from a charged test object. The conductive case and ground lead facilitate reference grounding for accurate measurement. Measures: 120 x 75 x 25 mm (4.8" H x 2.8" W x 1.0" D). Weight: 170 g (6 oz.).

Part Number

FMX-003 Compact Hand-held fieldmeter with charge plate4010723



**ION AIR GUNS
and NOZZLES**

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