

Top Gun™

Ionizing Air Gun

SIMCO's Top Gun is a high performance ionizing air gun designed for electronics and cleanroom applications. Balanced to $0 \pm 15V$, the Top Gun features high blow-off force to provide efficient cleaning and rapid static charge decay. A filter at the exit of the gun ensures that the air is clean.

The gun body is lightweight but durable. It features a light touch trigger, making it comfortable even for extended use. All functionality is built into the gun, including a flow control valve, a balance adjustment for calibration, and a two-level LED which indicates both power and ionization. The gun and cable are static dissipative. A hanger is provided for easy mounting.

- ▶ **Filter at the exit of the gun ensures that the air is clean**
- ▶ **Lightweight gun with ergonomic design for user comfort**
- ▶ **Flow control valve adjusts airflow for the specific application**
- ▶ **Electrical activation of ionization and airflow extend effectiveness of emitter with no maintenance**

- ▶ **Ionization indicator light verifies that ionization is present**
- ▶ **Electronically balanced ion output to $0 \pm 15V$ protects ESD-sensitive components and assemblies**

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Typical applications include:

- Electronic Assembly
- Medical Device Manufacturing and packaging
- Semiconductor and Flat Panel Display Processes

 **SIMCO®**

An Illinois Tool Works Company
Ionization for Electronics Manufacture

Specifications:

System Performance

Offset Voltage: 0 +/-15Volts

Discharge Time: 1.3 Seconds at 6" and 30 psi; 0.5 seconds at 2" and 60 psi

Offset voltage and discharge time determined as per ESD STM3.1 Ionization using a 6" x 6", 20pF plate (charge plate monitor). Discharge times are in seconds from 1000 volts to 100 volts.

Specifications

Unit Part Number:	4005105	4006599	4005106	4006600
Cable Length:	7' (2.13 m)	14' (4.26 m)	7' (2.13 m)	14' (4.26 m)
Line Voltage:	120 VAC	120 VAC	230 VAC	230 VAC
Frequency:	0/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Line Current (at rest):	0.01 Amps	0.01 Amps	0.005 Amps	0.005 Amps
Line Current (operation):	0.10 Amps	0.10 Amps	0.05 Amps	0.05 Amps

Power Inlet: IEC320

Air Inlet: 1/8 NPT (female)

Input Pressure: 100 PSI (7 bar) maximum, clean dry air or nitrogen

Air Consumption: 2.4 SCFM at 30 PSI (68 l/min. at 2 bar)
4.6 SCFM at 60 PSI (130 l/min. at 4 bar)
7.4 SCFM at 100 PSI (210 l/min. at 7 bar)

Output Pressure: Pressure relief in nozzle, complies with OSHA requirements.

Replaceable Filter: 0.01 micron

Noise Level: 76 dB at 30 PSI (2 bar)
89 dB at 60 PSI (4 bar)
97 dB at 100 PSI (7 bar)

Measured 24" (600 mm) from nozzle.

Operating Temperature: 32°F (0°C) to 104°F (40°C)

Construction: Gun: static dissipative polycarbonate / ABS alloy
Cable: static dissipative polyurethane

Weight: Gun: 6.5 ounces (185 g)
Cable: 1.25 ounces / ft (115 g / m)

Power Unit Size: 6.45" H x 5.20" W x 3.35" D
(not including flanges) (164 mm H x 132 mm W x 85 mm D)

In Ionization technology, SIMCO® clearly has the leadership role. Our research and manufacturing facilities are worldwide...our technical expertise is second to none...and our products simply inspire the competition. For a no-hassle assessment and quote call 800-538-0750 (in USA). Or log on to www.simco.biz.



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