



Critical Environment Benchtop Blower

MODEL 5802i

The Simco-Ion Critical Environment Benchtop Blower Model 5802i provides reliable, fast static charge control for benchtop work areas and small spaces, allowing optimal electrostatics management that minimizes cost and maximizes protection for ESD-sensitive areas. An internal automatic balance correction system ensures ionization continues to reach your target with complete accuracy presenting significant time and cost savings.

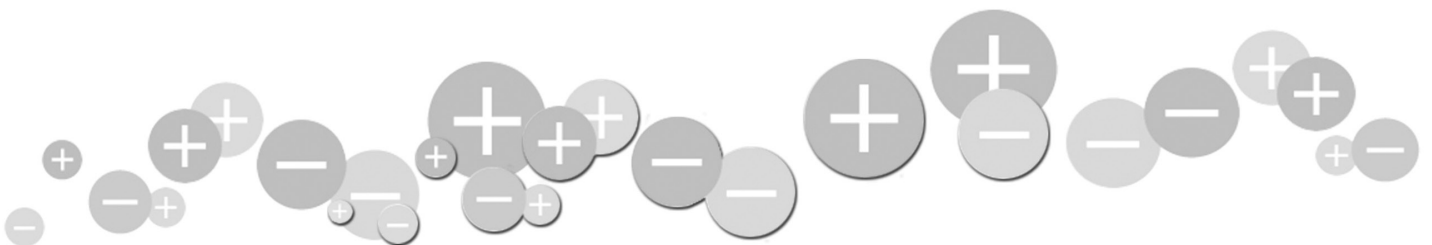
Model 5802i can operate with Novx sensors to maintain better than $\pm 1V$ balance by altering ion output and adapting to environmental changes. With the optional sensor and collimator, it delivers precisely balanced and directed ionized air to the target without taking up valuable room in the environment. A greater concentration of emitter points and internal circuitry suited for high humidity applications makes the Model 5802i the standard choice for environments that need quality ESD protection with a solid design.








Features

- $\pm 3V$ or better balance ($\pm 1V$ with Novx System)
- Cleanliness rated at ISO 14644-1 Class 4
- Sensor input, FMS connection, alarms, and management control
- Optional unique airflow directing collimator
- Optional Auto-Clean System

Benefits

- Provides the best corona-based ESD protection for maximizing yields
- Designed for use in an environment with a controlled level of contamination
- Increased control with immediate alarm notifications; prevention of unauthorized adjustment to power/fan speed
- Significantly improves airflow delivery with faster discharge times from greater distances
- Automates emitter point cleaning, reducing maintenance costs and time



Model 5802i	
Input Voltage	24 VDC when using Simco-Ion Power Supply (P/N 14-21116)
Discharge¹	With collimator (± 1000 -100V): <1 sec @ 12" (30.5 cm) Without collimator (± 1000 -100V): <2 sec @ 12" (30.5 cm)
Balance	$\pm 3V$ or better; $\pm 1V$ with the Novx System
Ion Emission	Steady-state DC Technology
Emitter	Titanium, 8 per fan
Cleanroom Class	ISO 14644-1 Class 4
LED Indicator	Green POWER on, red FAULT alarm with optional AUDIBLE ALARM
Control	Power/fan speed slide switch with off/low/high settings (preset fixed high speed available as an option), balance adjustment, optional sensor gain adjustment, sensor type selection and FMS connections
Airflow	108 cfm (typ)
Audible Noise	High fan speed 61 dB, (typ); low fan speed 52 dB, (typ); measurements taken 12" (30.5 cm) from fan
Ozone	0.008 ppm (typ)
Operating Env	50-90°F (10-32°C); 30-70% RH, non-condensing
Mounting	Tilt Lock Mounting Stand, optional wall mount bracket
Option	Novx sensor inputs with FMS connection, audible alarm, collimator, internal preset fan speed on high, power cord bracket, Auto-Clean System
Enclosure	Aluminum chassis with white epoxy-polyester powder coat
Dimension	10.4"H x 7.6"W x 5.0"D (26.4 x 19.3 x 12.7 cm) with stand
Weight	3 lb (1.36 kg)
Warranty	Two year limited warranty
Certification	   
Power Supply 14-21116	
Input Voltage	100-240 VAC, 50/60 Hz, 1A
Output Voltage	24 VDC ($\pm 5\%$) @ 1.5A
Dimension	1.30"H x 3.94"W x 1.97"D (3.30 x 10.0 x 5.00 cm)
Weight	0.35 lb (0.16 kg)
Certification	  

1. Tested in accordance with ANSI/ESD STM3.1-2015.

$\pm 1V$ Balance Performance with Novx System

The Model 5802i ionizer's Novx System version using a Novx sensor operates with the Novx 7000 Process Monitor and the Novx 3352 Passive or Novx 3362 Active Closed-loop Ionizer Controllers to detect and automatically correct the balance. With the sensor placed at the target area, feedback is sent to the Model 5802i Blower's internal control system, ensuring that your target maintains a $\pm 1V$ or better balance at all times.



Directed Airflow

The optional collimator fits over the fanstack of the Blower and directs ionized air straight to the target. This means that the Blower can be placed further away from the target with continued excellent discharge times and reach. This faster, directed airflow method significantly improves discharge times by removing common ion disbursement and recombination problems.

Adaptable Options

- An internally pre-set fan speed on high, ensuring uninterrupted delivery of ionization in critical work areas.
- An audible alarm that operates in addition to the visible red LED on the Blower to indicate operational failures including a stopped fan or loss of ionization.
- The Auto-Clean System, which reduces maintenance periods by sweeping the emitter points when the Blower is turned off and on, allowing the Blower to continually perform at optimum ion output and balance.

Ordering Information

91-5802i-CPL	Model 5802i Blower, $\pm 3V$ balance, high fixed fan speed*
91-5802i-CXL	Model 5802i Blower, $\pm 3V$ balance, low/high fan speed*
92-5802i-CPL*	Model 5802i Blower, $\pm 3V$ balance, high fixed fan speed*
92-5802i-CXL*	Model 5802i Blower, $\pm 3V$ balance, low/high fan speed*
*=F	Lowers balance to $\pm 1V$ with Novx System; adds FMS output to any of the above 92 level part numbers
*=E	Adds auto emitter clean system to any of the above 92 level part numbers
*=M	Adds Collimator to any of the above 92 level part numbers
*=A	Adds Audible Alarm to any of the above 92 level part numbers
32-5815	Wall Mount Bracket

Note: May add any combination of -F, -E, -M or -A options to the 92 level part number.

1. IEC power cord required, contact Sales Services for detail