

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 the target with complete accuracy presenting a significant time and cost savings.

Model 5802i can operate with external 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.

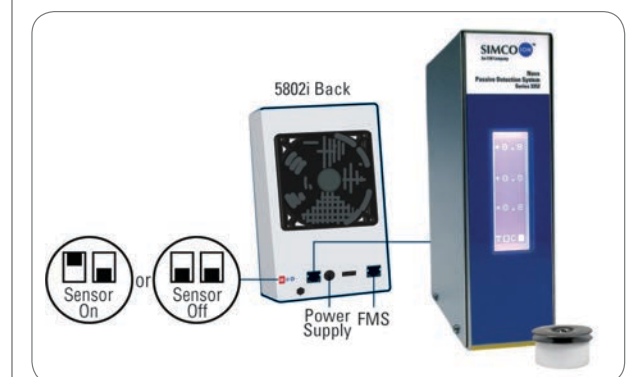


Features

- $\pm 3V$ or better balance $\pm 1V$ with the optional external feedback system
- Cleanliness rated at ISO 14644 Class 4 (Fed Std. 209E Class 10)
- Options for sensor input, FMS connection, alarms, and management control
- Unique airflow directing collimator option
- Auto-clean system option
- Provides the best corona-based ESD protection for maximizing yields

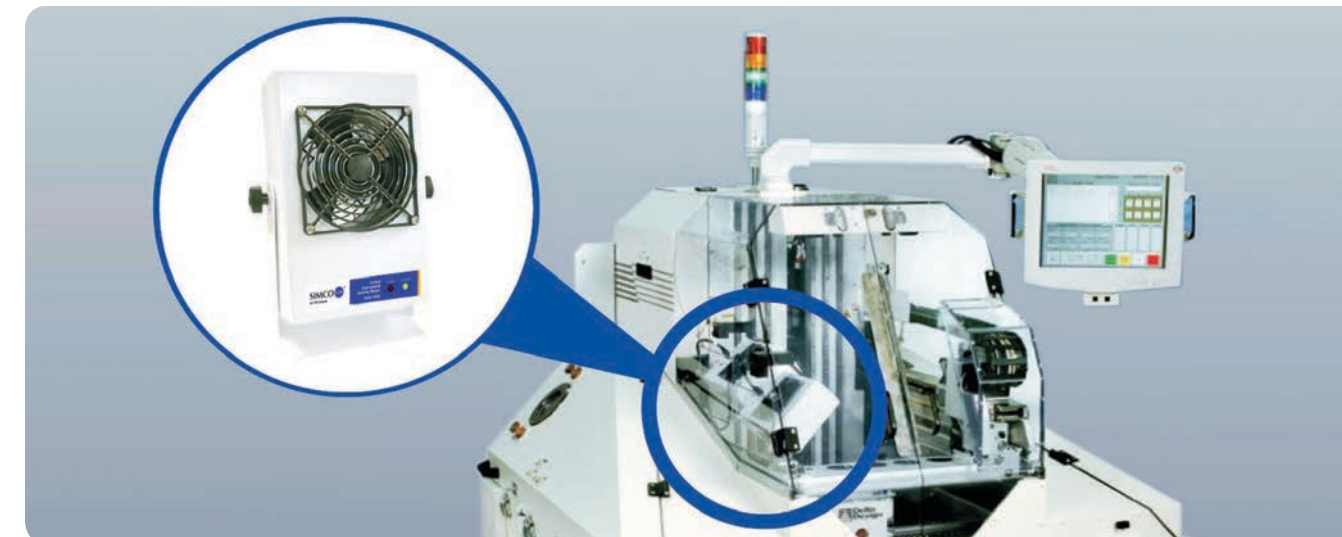
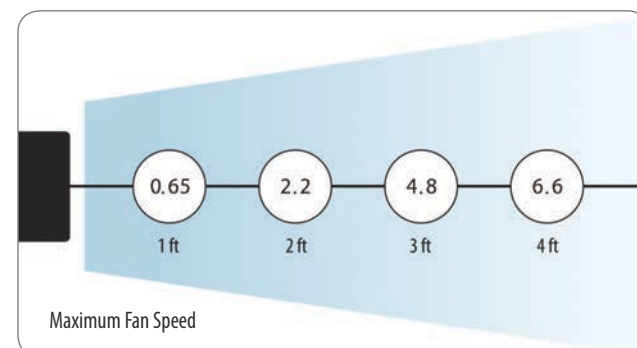
Benefits

- Designed for use in an environment with a controlled level of contamination
- Increased control with immediate notification of alarms; prevention of unauthorized adjustment power/fan speed
- Significantly improves airflow delivery with faster discharge times from greater distances
- Automates emitter point cleaning, reducing maintenance costs and time



5802i can operate with a Novx 3352, 3362 or 7000 to control its offset voltage at $\pm 1V$ or better performance

Typical Discharge Times (sec)



5802i Specifications

Airflow	108 cfm (typ)
Audible Noise	61 dB (typ) fan high, 52 dB (typ) fan low (measured 1' front of blower)
Balance	Better than $\pm 1V$ (typ) with external sensor, $\pm 3V$ (typ) without sensor
Cleanliness	Meets ISO 14644 Class 4 (Fed Std. 209E Class 10)
Controls	Power/fan speed slide switch with off/low/high (optional preset fixed high speed), balance adjust, optional sensor gain adjust, sensor type selection, FMS connections
Discharge*	Better than 1 sec @ 1' (1000-100V) with collimator, better than 2 sec @ 1' (typ) without collimator (measured in-line from center of fan)
Emitters	Titanium (8 per fan), ISO 14644 Class 4 (Fed. Std. 209e Class 10)
Indicators	Green power, red fault with optional audible alarm
Technology	Steady-state DC
Temperature	Operating Env: 50-90°F (10-32°C), 30-70% RH (non-condensing)
Options	External sensor inputs with FMS connection, audible alarm, collimator, internal preset fan speed on high, power cord bracket, auto-clean system
Ozone	0.008 ppm (typ)
Voltage	24 VDC
Enclosure	Aluminum chassis with epoxy-polyester powder coat
Mounting	Tilt lock mounting stand with optional wall mount bracket
Dimensions	10.5"H x 7.6"W x 5"D (26.7 x 19.3 x 12.7 cm)
Weight	3 lbs (1.36 kg)
Certifications	CE, RoHS, ISO 14644 Class 4, IEC 60335-1

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

Directed Airflow

The optional collimator fits over the fan stack of the blower and directs ionized air straight to the target so that it can be placed further away from the target with continued excellent discharge times. This significantly improves discharge times by removing common ion disbursement and recombination problems.

$\pm 1V$ Balance Performance

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

Adaptable Options

- An internally preset fan speed on high, ensuring uninterrupted delivery of ionization in critical work areas
- An audible alarm can operate with the visible red LED on the blower to indicate operational failures including a stopped fan or loss of ionization
- The auto-clean system 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

