



Critical Environment Benchtop Blower

MODEL 5832

The Simco-Ion Critical Environment Benchtop Blower Model 5832 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. A greater concentration of emitter points and internal circuitry suited for environments that need quality ESD protection with solid design. An optional two-level warning ($\pm 3V$) and alarm ($\pm 5V$) notification feature provides preventative notification of a possible pending balance condition¹.

The ionizer has two other versions, Novx Inside and Novx System, that operate with an external sensor at the target location to maintain precise balance (better than $\pm 1V$) by altering ion output and adapting to environmental changes. These versions deliver precisely balanced and directed ionized air to your target without taking up valuable room in your environment.

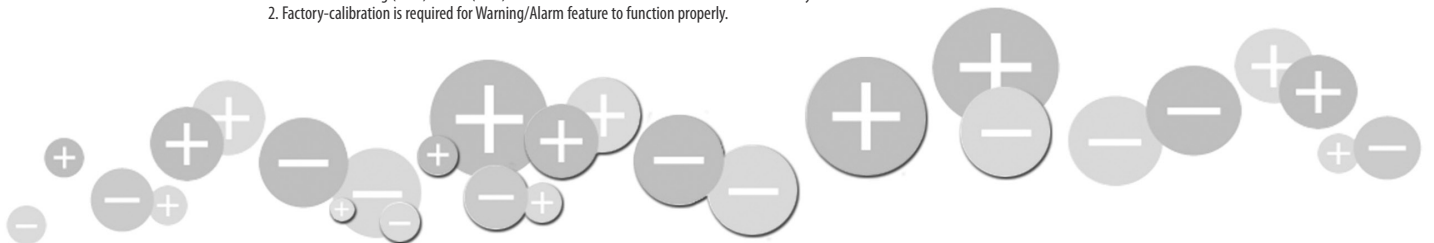
Features

- $\pm 3V$ or better balance ($\pm 1V$ with the Novx Inside or Novx System versions)
- Cleanliness rated at ISO 14644-1 Class 3
- Options for warning/alarm 2 level notification¹, sensor input, FMS connection, alarms, and management control
- Auto-Clean System
- Angled Collimator

Benefits

- Provides the best corona-based ESD protection for maximizing yields
- Designed for use in critical environments with a controlled level of contamination
- Increased control with immediate notification of alarms and the prevention of unauthorized adjustment to power or fan speed
- Automated emitter point cleaning, reducing maintenance costs and time
- Customer "settable" 360 degree output direction²

1. Two-level Warning ($\pm 3V$)/Alarm ($\pm 5V$) feature is not available with Novx Inside and Novx System versions.
2. Factory-calibration is required for Warning/Alarm feature to function properly.



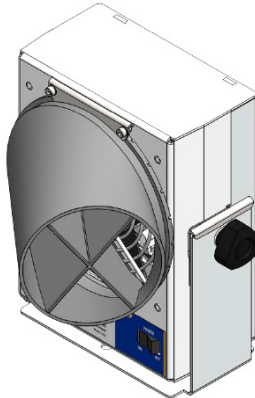
Model 5832	
Input Voltage	24 VDC, 0.47A max
Discharge ¹	With/Without Collimator: <1 sec @ 12" (30.5 cm), typ Without Collimator: <2 sec @ 24" (61 cm), typ With Collimator: <1.5 sec @ 24" (61 cm), typ
Balance	±3V or better balance; ±1V with the Novx Inside or Novx System versions
Ion Emission	Steady-state DC Technology
Emitter	Titanium, 8 per fan
Cleanroom Class	ISO 14644-1 Class 3
LED Indicator ²	Green POWER on, red FAN stall, red FAULT with optional AUDIBLE ALARM (two-stage blinking red FAULT LED to indicate WARNING and ALARM conditions)
Control	Power/fan speed DIP switch with 4 speed/velocity settings, balance adjustment, sensor type selection, FMS connections
Airflow	125 cfm (typ)
Audible Noise	High fan speed 61 dB (typ), low fan speed 52 dB (typ); measurements taken 12" (30.5 cm) from fan
Option	External sensor inputs with FMS connection, audible alarm, angled collimator Warning: ±3V; Alarm: ±5V on standalone version
Ozone	0.005 ppm (typ)
Operating Env	50-90°F (10-32°C); 30-70% RH, non-condensing
Mounting	Tilt Lock Mounting Stand
Enclosure	Aluminum chassis with epoxy-polyester powder coat
Dimension	7.27"H x 6.95"W x 2.97"D (18.47 x 17.65 x 7.54 cm) with stand 7.27"H x 6.95"W x 6.11"D (18.47 x 17.65 x 15.5 cm) with angled collimator
Weight	2.20 lb (1.00 kg) without collimator; 2.42 lb (1.10 kg) with angled collimator
Warranty	Two year limited warranty
Certification	

Power Adapter 14-21328	
Input Voltage	100-240 VAC, 50/60 Hz
Output Voltage	24 VDC, 30W
Dimension	3.90"L x 1.42"H x 2.05"W (9.90 x 3.61 x 5.21 cm)
Weight	0.44 lb (0.20 kg)
Certification	

1. Tested in accordance with ANSI/ESD STM3.1-2015.
2. Two-level balance alarm is available on "WA" version only.

Options

- Warning/alarm feature only available in standalone version, not available in NOVX System or NOVX Inside options
- Angled collimator helps to direct ionized air to desired location in space restriction areas¹
- An audible alarm that operates in addition to visible array of 3 LEDs on the front of the blower to indicate operational failures including a stalled fan or loss of ionization



1. Customer 'settable' 360 degree output direction. For -WA- version, factory-calibration is required for Warning/Alarm feature to function properly.

±1V Balance Performance

Novx Inside: The Model 5832 can be ordered and operated with the remote antenna option which allows any of the standard Novx Passive Antenna assemblies to be connected directly to the 5832 (SMA Connector).

Novx System: The Model 5832 using 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 5832 blower's internal control system (RJ-11 Connector). This ensures that your target maintains a ±1V or better balance at all times.



DIP Switch Settings

Switch	Description
1	SENSOR: This switch zero's the front grill and remote sensor inputs to eliminate offsets caused by the circuitry when the remote sensor is used.
2	EPC Auto/Man: The second dip switch sets the emitter point cleaner to run on a timer (Auto) or only when the external input is manually activated from the IO terminal block input (Man).
3, 4	Fan Speed Switch: The remaining two dip switches control the fan speed; four speeds are available. The switch settings for each fan speed are listed in the user manual.

Ordering Information

91-5832-yy	5832 Blower Standalone
91-5832-WA-yy	5832 Blower Standalone with Warning Alarm
91-5832A-yy	5832 Blower Novx Inside with SMA Connector
91-5832N-yy	5832 Blower Novx System with RJ-11 Connector
91-5832-M90-yy	5832 Blower Standalone with Angled Collimator
91-5832-M90-WA-yy	5832 Blower Standalone with Warning Alarm & Angled Collimator
91-5832A-M90-yy	5832 Blower Novx Inside with SMA Connector & Angled Collimator
91-5832N-M90-yy	5832 Blower Novx System with RJ-11 Connector & Angled Collimator
14-21328	100-240 VAC to 24 VDC Power Adapter**
22-0430-01	Emitter Point, Titanium
33-1620-xx*	IC, Novx feedback/Control Interface Cable
33-0504	Passive Antenna, 1.75" x 4" Tall with SMA-to-SMA Cable, 5 ft (1.5m)
33-0521-5	Passive Antenna, 1.75" x 1" Tall with SMA-to-SMA Cable, 5 ft (1.5m)
33-1301-01	Replacement Cleaning Pad (pack of 50)

-yy = 01 includes power adapter**
 -yy = 01A includes power adapter and Audible Alarm**
 -yy = NX01 does not include power adapter
 -yy = NX01A does not include power adapter, with Audible Alarm

* xx = -06 = 6 ft (1.8m), -10 = 10 ft (3m), -20 = 20 ft (6m).
 ** IEC power cord required, contact Sales Service for detail.



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