

# Critical Environment Benchtop Blower

MODEL 5832

**SIMCO** **ION**<sup>TM</sup>  
An ITW Company



The Critical Environment Benchtop Blower Model 5832 provides reliable static charge control for benchtop work areas and small spaces. This optimal electrostatic control system maximizes protection for ESD-sensitive products and areas. An internal automatic balance feedback and control system ensures ionization continues to reach your target with complete accuracy. An optional two-level warning ( $\pm 3V$ ) and alarm ( $\pm 5V$ ) balance monitoring feature provides notification of a possible out of balance condition<sup>1</sup>.

The ionizer has two additional versions besides the Standalone configuration that provide external balance feedback and control which are the Novx Inside and Novx System configurations. These operate with a remote antenna at the target location to maintain precise balance ( $\pm 1V$ ) by controlling the ionizer performance which adapts to environmental changes. These two versions with active feedback and control, deliver precisely balanced and directed ionization to your target area.

## FEATURES

- ✓  $\pm 3V$  balance ( $\pm 1V$  with Novx Inside or Novx System versions)
- ✓ Cleanliness rated at ISO 14644-1 Class 3
- ✓ FMS output, alarms, and management control are standard features
- ✓ Options for warning/alarm 2 level notification<sup>1</sup> and antenna input for Novx Inside or Novx System versions
- ✓ Auto-Clean System
- ✓ Optional Angled Collimator

## BENEFITS

- ✓ Provides the best-in-class ESD protection
- ✓ Designed for use in critical environments
- ✓ Immediate notification of alarms to meet and exceed Industry 4.0 factory control requirements
- ✓ Automated emitter point cleaning, reducing maintenance costs and time
- ✓ Customer "adjustable" 360 degree output direction with optional Angled Collimator<sup>2</sup>

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.

invisible problems

visible results<sup>TM</sup>  
Tackling Static & Particulate Contamination

**Model 5832**

<b>Input Voltage</b>	24 VDC, 0.47A max or Simco-Ion P/N 14-21328
<b>Discharge<sup>1</sup></b>	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
<b>Balance</b>	$\pm 3V$ ; $\pm 1V$ with Novx Inside or Novx System versions
<b>Ion Emission</b>	Steady-state DC Technology
<b>Emitter</b>	Titanium, 8 per fan
<b>Cleanroom Class</b>	ISO 14644-1 Class 3
<b>LED Indicator<sup>2</sup></b>	Green POWER on, red FAN stall, red FAULT with optional AUDIBLE ALARM (two-stage blinking red Fault LED to indicate Warning and Alarm conditions)
<b>Control</b>	Power/fan speed DIP switch with 4 speed/velocity settings, balance adjustment, antenna type selection, FMS connections
<b>Airflow</b>	125 cfm (high fan speed)
<b>Audible Noise</b>	High fan speed 61 dB (typ), low fan speed 52 dB (typ); measurements taken 12" (30.5 cm) from fan
<b>Option</b>	External antenna inputs with FMS connection, audible alarm, angled collimator; Warning: $\pm 3V$ ; Alarm: $\pm 5V$ on standalone version
<b>Ozone</b>	0.005 ppm (typ)
<b>Operating Env</b>	50-90°F (10-32°C); 30-60% RH, non-condensing
<b>Mounting</b>	Tilt Lock Mounting Stand
<b>Enclosure</b>	Aluminum chassis with epoxy-polyester powder coat
<b>Dimension</b>	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
<b>Weight</b>	2.20 lb (1.00 kg) without collimator; 2.42 lb (1.10 kg) with angled collimator
<b>Warranty</b>	Two year limited warranty
<b>Certification</b>	   

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

2. Two-level balance alarm is available on "WA" version only.

**Options**

- Warning/alarm feature only available in standalone version, not available in NOVX Inside or NOVX System options.
- Angled collimator directs ionizer output to desired location in confined spaces<sup>1</sup>.
- An audible alarm that operates in addition to visible array of 3 LEDs on the front panel to indicate operational failures including a stalled fan or loss of ionization.



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

 **$\pm 1V$  Balance Performance**

**Novx Inside:** The Model 5832A with the remote Antenna Input allows any of the standard Novx Passive Antenna Assemblies to be connected directly to the Model 5832A (SMA Connector).



**Novx System:** The Model 5832N with the Novx Input operates with the Novx 7000, Novx 3352, or Novx 3362 Controllers that are used to monitor and control the balance. With the antenna placed at the target area, feedback is sent to the Model 5832N internal control system (RJ-11 Connector). This ensures that your target maintains a  $\pm 1V$  balance at all times.

**DIP Switch Settings**

Switch	Description
1	SENSOR: This switch zero's the front grill and remote antenna inputs to eliminate offsets caused by the circuitry when the remote antenna 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**

<b>91-5832-yy</b>	5832 Blower Standalone
<b>91-5832-WA-yy</b>	5832 Blower Standalone with Warning Alarm
<b>91-5832A-yy</b>	5832 Blower Novx Inside with SMA Connector
<b>91-5832N-yy</b>	5832 Blower Novx System with RJ-11 Connector
<b>91-5832-M90-yy</b>	5832 Blower Standalone with Angled Collimator
<b>91-5832-M90-WA-yy</b>	5832 Blower Standalone with Warning Alarm & Angled Collimator
<b>91-5832A-M90-yy</b>	5832 Blower Novx Inside with SMA Connector & Angled Collimator
<b>91-5832N-M90-yy</b>	5832 Blower Novx System with RJ-11 Connector & Angled Collimator
<b>14-21328</b>	100-240 VAC to 24 VDC, 30W Power Adapter**
<b>22-0430-01</b>	Emitter Point, Titanium
<b>33-1620-xx*</b>	IC, Novx feedback/Control Interface Cable
<b>33-0504</b>	Passive Antenna, 1.75" x 4" Tall with SMA-to-SMA Cable, 5 ft (1.5m)
<b>33-0521-5</b>	Passive Antenna, 1.75" x 1" Tall with SMA-to-SMA Cable, 5 ft (1.5m)
<b>33-1301-01</b>	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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DS-5832\_V9 - 12/25

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