



## 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 a significant time and cost savings.

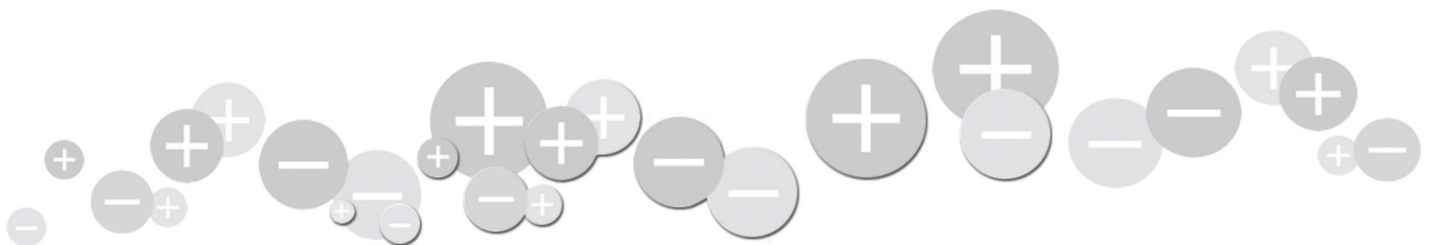
The ionizer can operate with an external sensor to maintain precise balance (better than  $\pm 1V$ ) by altering ion output and adapting to environmental changes. With the optional remote sensor or Novx feedback/control, the Model 5832 delivers precisely balanced and directed ionized air to your target without taking up valuable room in your environment. A greater concentration of emitter points and internal circuitry suited for high humidity applications makes the Model 5832 the standard choice for environments that need quality ESD protection with solid design.








#### 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
- Auto-Clean System

#### 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
- Automates emitter point cleaning, reducing maintenance costs and time



| Model 5832 Ionizer           |   |
|------------------------------|---|
| <b>Input Voltage</b>         | 24 VDC (470 mA max)   |
| <b>Discharge<sup>1</sup></b> | Better than 2 sec @ 1 ft (typ) taken in-line from the center of the fan ( $\pm 1000$ -100V);  |
| <b>Balance</b>               | Better than $\pm 1V$ (typ) with external sensor; $\pm 3V$ (typ) without sensor  |
| <b>Ion Emission</b>          | Steady-state DC (corona discharge)  |
| <b>Emitters</b>              | Titanium emitter points, 8 per fan  |
| <b>Airflow</b>               | 129 cfm (typ)   |
| <b>Cleanroom Class</b>       | Meets ISO 14644 Class 4 (Fed Std. 209E Class 10)  |
| <b>Operating Env.</b>        | Temperature 50-90°F (10-32°C), humidity 30-70% RH, non-condensing   |
| <b>Ozone</b>                 | 0.005 ppm (typ)   |
| <b>Indicators</b>            | Green POWER on, red FAN stall, red FAULT LEDs with optional AUDIBLE ALARM   |
| <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>Mounting</b>              | Tilt Lock Mounting Stand  |
| <b>Controls</b>              | Power/fan speed DIP switch with 4 speed/velocity settings, balance adjustment, sensor type selection, FMS connections   |
| <b>Options</b>               | External sensor inputs with FMS connection, audible alarm,  |
| <b>Enclosure</b>             | Aluminum chassis with epoxy-polyester powder coat   |
| <b>Dimensions</b>            | 7.27"H x 5.12"W x 2.76"D (18.5 x 13 x 7.0 cm)   |
| <b>Weight</b>                | 2.2 lb (1 kg)   |
| <b>Warranty</b>              | Two year limited warranty   |
| <b>Certifications</b>        |     |
| Power Adapter 14-21328       |   |
| <b>Input Voltage</b>         | 100-240 VAC 50/60 Hz  |
| <b>Output Voltage</b>        | 24 VDC, 30W   |
| <b>Dimensions</b>            | 3.9"L x 1.4"H x 2.1"W (99 x 36 x 52 mm)   |
| <b>Weight</b>                | 5 oz (140 g)  |
| <b>Certifications</b>        |      |

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

## $\pm 1V$ Balance Performance

**Novx Option:** The Model 5832'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 5832 blower's internal control system (RJ Connector). This ensures that your target maintains a  $\pm 1V$  or better balance at all times.



**Remote Antenna Option:** 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).

## 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.                  |

## Adaptable Options

- An audible alarm that operates in addition to the visible array of 3 each LED's on the front of the blower indicate operational failures including a stalled 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 or on a preset time interval or user activated through the FMS.

## Ordering Information

|                     |  |
|---------------------|--|
| <b>91-5832-01</b>   | 5832 Blower, Standard  |
| <b>91-5832-01A</b>  | 5832 Blower Standard with Audible Alarm                        |
| <b>91-5832A-01</b>  | 5832 Blower with Antenna Connection                            |
| <b>91-5832A-01A</b> | 5832 Blower Standard with Antenna Connection and Audible Alarm |
| <b>91-5832N-01</b>  | 5832 Blower with Novx Connection                               |
| <b>91-5832N-01A</b> | 5832 Blower Standard with Novx Connection and Audible Alarm    |
| <b>14-21328</b>     | Power Adapter  |
| <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)  |
| <b>33-0521-5</b>    | Passive Antenna, 1.75" x 1" Tall with SMA-to-SMA Cable (5 ft)  |

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