SIMCO ION™
An ITW Company

Ionization Solutions

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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.

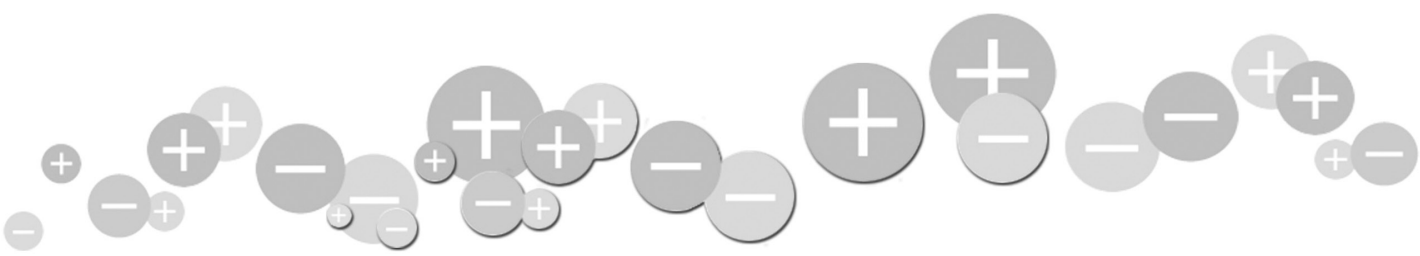
The ionizer has two versions, Novx Inside and Novx System, that operate with an external sensor at the target location to maintain precise balance (better than ±1V) by altering ion output and adapting to environmental changes. These versions deliver precisely balanced and directed ionized air to your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

- ±3V or better balance (±1V with the Novx Inside or Novx System versions)
- Cleanliness rated at ISO 14644-1 Class 3
- 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	
Input Voltage	24 VDC, 470 mA max
Discharge[1]	<2 sec @ 12" (30.5 cm), ±1000-100V
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	Green POWER on, red FAN stall, red FAULT with optional AUDIBLE ALARM
Control	Power/fan speed DIP switch with 4 speed/velocity settings, balance adjustment, sensor type selection, FMS connections
Airflow	129 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
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
Weight	2.2 lb (1.0 kg)
Warranty	Two year limited warranty
Certification	CE cULus RoHS2 KC UKCA
Power Adapter 14-21328	
Input Voltage	100-240 VAC, 50/60 Hz
Output Voltage	24 VDC, 30W
Dimension	3.9"L x 1.4"H x 2.1"W (9.90 x 3.56 x 5.33 cm)
Weight	0.44 lb (0.20 kg)
Certification	CE cULus RoHS2 KC UKCA

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

Adaptable Option

An audible alarm that operates in addition to the visible array of 3 each LEDs on the front of the blower indicate operational failures including a stalled fan or loss of ionization.

Airflow

Fan Speed	Distance to CPM						Tolerance
	@ Fan Face (m/sec)	CFM	12" (m/sec)	CFM	24" (m/sec)	CFM	
High	6.1	125.0	2.8	56.4	1.9	39.0	(±10%)
Medium-High	5.7	117.0	2.6	52.6	1.6	33.0	
Medium-Low	3.7	76.0	1.7	35.1	1.0	21.0	
Low	2.0	41.0	0.7	13.7	0.4	8.0	

±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 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

91-5832-01	5832 Blower, Standard*
91-5832-01A	5832 Blower, Standard with Audible Alarm*
91-5832A-01	5832 Blower with Antenna Connection*
91-5832A-01A	5832 Blower, Standard with Antenna Connection & Audible Alarm*
91-5832N-01	5832 Blower with Novx Connection*
91-5832N-01A	5832 Blower, Standard with Novx Connection & Audible Alarm*
91-5832-NX01	5832 Blower, Standard (No Power Adapter)
91-5832-NX01A	5832 Blower, Standard with Audible Alarm (No Power Adapter)
91-5832A-NX01	5832 Blower with Antenna Connection (No Power Adapter)
91-5832A-NX01A	5832 Blower with Antenna Connection & Audible Alarm (No Power Adapter)
91-5832N-NX01	5832 Blower with Novx Connection (No Power Adapter)
91-5832N-NX01A	5832 Blower with Novx Connection & Audible Alarm (No Power Adapter)
14-21328	100-240 VAC to 24 VDC Power Adapter*
22-0430-01	Emitter Point, Titanium
33-1620-xx[1]	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

1. 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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