

# General Electronics Benchtop Blower

**MODEL 6832**

**SIMCO ION**™  
An ITW Company



The Simco-Ion, Technology Group General Electronic Blower Model 6832 provides reliable, fast static charge control for benchtop work areas or mounted in confined spaces, allowing optimal electrostatic management that minimizes cost and maximizes protection for ESD-sensitive areas. An internal automatic balance control system ensures ionization continues to reach your target with complete accuracy, presenting a significant time and cost savings.

Model 6832 delivers precisely balanced and directed ionization 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 6832 the standard choice for environments that need quality ESD protection with a proven design.

## FEATURES






- ✓  $\pm 10V$  or better balance
- ✓ Cleanliness rated at ISO 14644-1 Class 4
- ✓ Fan-stall indication and alarm output
- ✓ FMS connection and alarms for management control
- ✓ Manual emitter point cleaning system

## BENEFITS

- ✓ Provides the best corona-based ESD protection for maximizing yields
- ✓ Designed for use in an environment with a controlled level of contamination
- ✓ Immediate notification if the fan stops rather than continuing operations without ionization
- ✓ Increased control with immediate notification of alarms
- ✓ Reducing maintenance costs and improving performance

**invisible problems**

**visible results**™  
Tackling Static & Particulate Contamination

Model 6832	
<b>Input Voltage</b>	24 VDC (470 mA max) or Simco-Ion P/N 14-21328
<b>Discharge<sup>1</sup></b>	<2 sec @ 12" (30.5 cm); ±1000-100V
<b>Balance</b>	<±10V (typ)
<b>Ion Emission</b>	Steady-state DC Technology
<b>Emitter</b>	Titanium, 8 per fan
<b>Cleanroom Class</b>	ISO 14644-1 Class 4
<b>LED Indicator</b>	Green POWER on, red FAN stall, red FAULT with optional AUDIBLE ALARM
<b>Control</b>	Power/fan speed DIP switch with 4 speed/velocity settings, balance adjustment, FMS connections
<b>Airflow</b>	125 cfm (high fan speed)
<b>Audible Noise</b>	High fan 61 dB (typ), low fan 52 dB (typ); measured @ 12" (30.5 cm) from fan
<b>Ozone</b>	0.005 ppm (typ)
<b>Operating Env</b>	50-90°F (10-32°C); 30-60% RH, non-condensing
<b>Option</b>	Audible alarm
<b>Enclosure</b>	Powder-coated aluminum
<b>Dimension</b>	7.33"H x 6.95"W x 2.75"D (18.6 x 17.6 x 6.99 cm) with stand
<b>Weight</b>	1.98 lb (0.90 kg) with stand
<b>Warranty</b>	Two year limited warranty
<b>Certification</b>	    

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

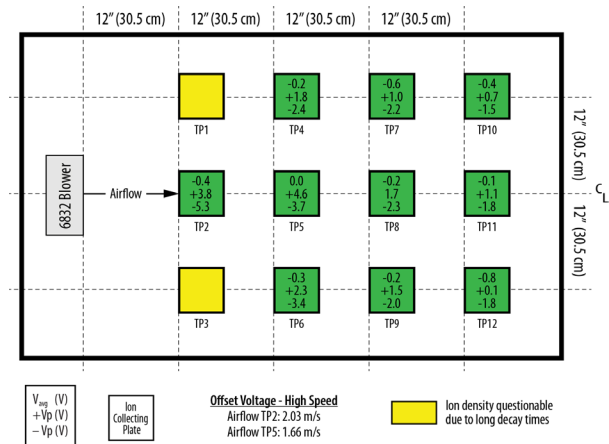
## Ordering Information

<b>91-6832-01</b>	6832 Blower, includes 24 VDC Power Adapter*
<b>91-6832-01A</b>	6832 Blower, includes Audible Alarm and 24 VDC Power Adapter*
<b>91-6832-NX01</b>	6832 Blower, does not include 24 VDC Power Adapter
<b>91-6832-NX01A</b>	6832 Blower, includes Audible Alarm, does not include 24 VDC Power Adapter
<b>14-21328</b>	100-240 VAC to 24 VDC, 30W Power Adapter*

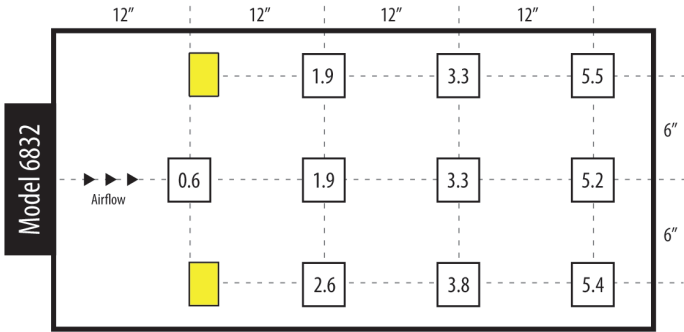
\* IEC power cord required, please contact Sales Services for detail.

## Balance Performance

Performance test results for high fan speed per ANSI/ESD STM3.1 standard are shown below. High fan speed is one of four fan speeds (high, medium-high, medium-low, and low).







## Discharge Time Performance



Discharge time in seconds (1000-100V), fan speed set to high; blower 12" from CPM measuring plate; CPM test plate 7.2" from table; discharge times slightly longer for 230 VAC, 50 Hz unit. Yellow cell without value = decay time over 30 seconds.

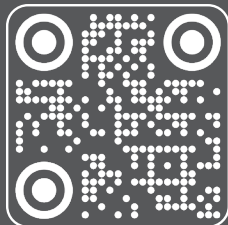
## Fan Speed DIP Switch Settings

The 2 dip switches control the fan speed (4 speeds are available). The switch settings for each fan speed are shown in the table on the right.

Fan Speed	Switch Setting	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	

## Audible Alarm

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



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DS-6832 Rev 5 - 11/25

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