



General Electronics Benchtop Blower

MODEL 6832

The Simco-Ion General Electronic Blower Model 6832 provides reliable, fast static charge control for benchtop work areas or mounted in confined spaces, allowing optimal electrostatics 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.

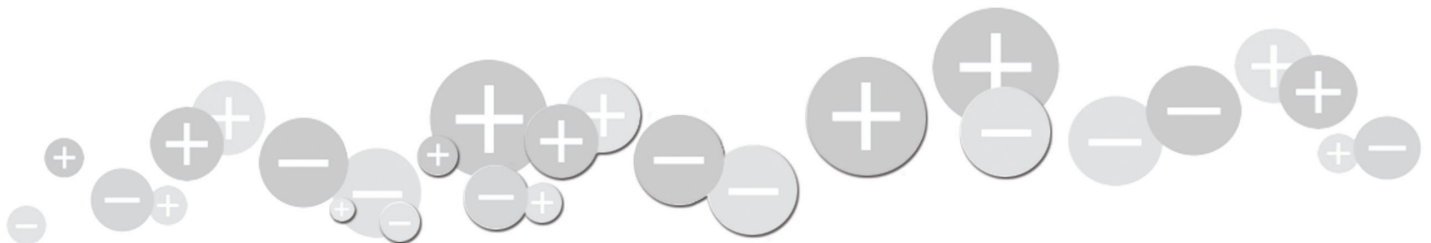
Model 6832 delivers precisely balanced and directed ionization to your target without taking up valuable room in your environment. A greater concentration of emitter points and internal circuitry suited for high humidity applications makes the Model 6832 the standard choice for environments that need quality ESD protection with a proven design.

Features

- $\pm 10V$ or better balance
- Cleanliness rated at ISO 14644 Class 4 (Fed. Std. 209e Class 10)
- FMS connection and alarms for management control
- Manual emitter point cleaning system
- Small footprint @ 60 mm depth

Benefits

- Provides the best corona-based ESD protection for maximizing yields
- Designed for use in an environment with a controlled level of contamination
- Increased control with immediate notification of alarms
- Reducing maintenance costs and improved performance
- Designed for confined space applications



Specifications	
Input Voltage	24 VDC (470 mA max)
Discharge ¹	<2 sec @ 1' (30 cm) (typ) taken in-line from center of fan (±1000-100V)
Balance	<±10V (typ)
Ion Emission	Steady-state DC (corona discharge)
Emitters	Titanium emitter points, 8 per fan
Airflow	129 cfm (typ) @ high speed
Cleanroom Class	Meets ISO 14644 Class 4 (Fed Std. 209E Class 10)
Operating Env	Temperature 50-90°F (10-32°C), humidity 30-70% RH, non-condensing
Ozone	0.005 ppm (typ)
Indicators	Green POWER on, red FAN stall, red FAULT with optional AUDIBLE ALARM
Audible Noise	High fan 61 dB (typ), low fan 52 dB (typ); measured @ 12" (30.5 cm) from fan
Mounting	Tilt lock mounting stand
Controls	Power/fan speed DIP switch with 4 speed/velocity settings, balance adjustment, FMS connections
Options	Audible alarm
Enclosure	Powder-coated aluminum
Dimensions	7.33"H x 5.12"W x 2.36"D (18.6 x 13 x 6.0 cm)
Weight	2.03 lb (0.92 kg)
Warranty	Two year limited warranty
Certifications	
Power Adapter 14-21328	
Input Voltage	100-240 VAC 50/60 Hz
Output Voltage	24 VDC, 30W
Dimensions	3.9"L x 1.4"H x 2.1"W (99 x 36 x 52 mm)
Weight	7 oz (200g)
Certifications	

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

Ordering Information

91-6832-01	6832 blower, standard
91-6832-01A	6832 blower standard with audible alarm

Dip Switch Settings

Fan Speed

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.

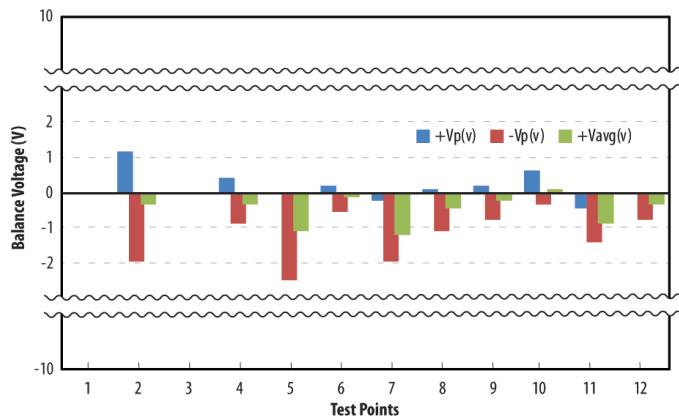
Fan Speed Selection	
Switch Setting	Fan Speed
	Low
	Medium-Low
	Medium-High
	High

Audible Alarm

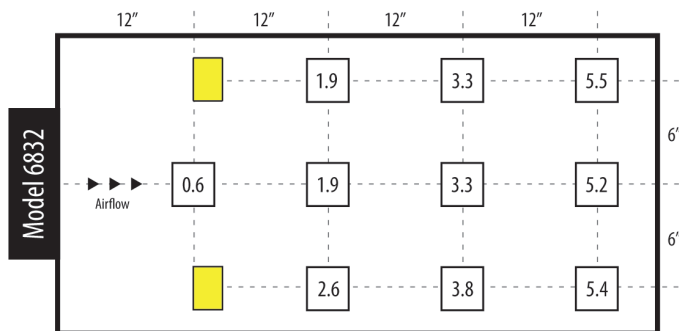
An audible alarm that operates in addition to the visible array of 3 each LEDs on the front of the blower indicates operational failures including a stalled fan or loss of ionization.

Balance Performance

Performance test results for high fan speed per ANSI/ESD STM3.1-2015 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.

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	

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