

Overhead Ionizing Blower

MODEL 6842 WITH HEATER



Powered by Simco-Ion, Technology Group's Steady-state DC Technology, the Model 6842 Overhead Ionizing Blower with Heater delivers superior ion balance stability and rapid static charge decay across the entire work surface, ensuring consistent ESD protection over extended service periods.

Designed for minimal maintenance, it incorporates a built-in auto-emitter point cleaner that automatically services the emitter tips at power-on/off or at seven-day intervals. With integrated task lighting and a heater function, the blower combines user-friendly operation with enhanced comfort, while effectively safeguarding sensitive components from electrostatic damage.

For added versatility, an optional filter improves ionized air quality at the target area, while an optional audible alarm provides instant alerts to ensure timely response.

FEATURES

- ✓ Integrated heater and task lights
- ✓ Auto emitter point cleaner
- ✓ Steady-state DC Technology
- ✓ $\pm 10V$ or better balance
- ✓ ISO 14644-1 Class 5 cleanliness at heater off

BENEFITS

- ✓ User-friendly, enhances operator comfort and efficiency
- ✓ Easy to maintain, reducing maintenance costs and time
- ✓ Stable balance over extended periods of use
- ✓ Protects even the most sensitive electronic components
- ✓ Designed for use in environment with controlled level of contamination

invisible problems
visible results™
Tackling Static & Particulate Contamination

Model 6842 with Heater	
Input Voltage	100-120 VAC or 200-240 VAC 50-60 Hz, 550W with heater ON and task lights ON 45W with heater OFF and task light ON 30W with heater OFF and task lights OFF
Discharge¹	<2.5 sec @ 18" (45.7 cm) center of blower; 1000-100V fan high
Balance²	0 ±10V @ 18" (45.7 cm) from blower face
Coverage	4-Fan: 24"W x 48"L (61 x 122 cm) area
Ion Emission	Steady-state DC Technology
Emitter	Titanium, 8 per fan
Cleanroom Class	ISO 14644-1 Class 5 with heater OFF
LED Indicator	GREEN Power, RED Fan Stall, RED Fault
Task Light	LED, White, 705 lm (typ) 4000K 5W max ea
Control	Power ON/OFF switch, Fan Speed by DIP switch with 4 speed/velocity settings, BALANCE Adjustment, Heater & Task Light ON/OFF switch, Auto-EPC ON/OFF Dip Switch
Output	FMS relay (2 Contacts) normal closed, open on alarm or power off FMS 4-20 mA normal 4 mA, 20 mA on alarm, 0 mA with power off
Air Supply	99 cfm (high fan speed), 81 cfm (medium-high), 63 cfm (medium-low), 40 cfm (low) Heated Temp: 25°F (14°C) fan low, 11°F (6°C) fan high; measured 6" (15.2 cm) in front of center fan above ambient
Audible Noise	4-Fans Configuration: High fan speed 69 dB (typ), low fan speed 50 dB (typ); measurements taken 12" (30.5 cm) from fan
Ozone	0.02 ppm; measured 12" (30.5 cm) in front of blower
Operating Env	32-122°F (0-50°C); 30-60% RH, non-condensing
Option	Air Filter (30 ppi open cell polyurethane foam); Audible Alarm
Mounting	2x Dia 0.25" holes on the mounting bracket, S-hooks provided
Enclosure	Powder-coated white enamel aluminum chassis
Dimension	3.46"H x 6.25"W x 24 / 36 / 48"L (88 x 159 x 610 / 914 / 1220 mm)
Weight	2-Fan: 6.9 lb (3.14 kg) 3-Fan: 9.5 lb (4.32 kg) 4-Fan: 12.25 lb (5.56 kg)
Warranty	Two-year limited warranty
Certification	   

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

Ordering Information

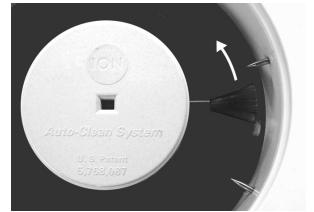
91-6842-2-120-01H	6842 2-fan with heater, auto-clean and task light, 100-120V, 50-60 Hz*
91-6842-2-240-01H	6842 2-fan with heater, auto-clean and task light, 200-240V, 50-60 Hz*
91-6842-3-120-01H	6842 3-fan with heater, auto-clean and task light, 100-120V, 50-60 Hz*
91-6842-3-240-01H	6842 3-fan with heater, auto-clean and task light, 200-240V, 50-60 Hz*
91-6842-4-120-01H	6842 4-fan with heater, auto-clean and task light, 100-120V, 50-60 Hz*
91-6842-4-240-01H	6842 4-fan with heater, auto-clean and task light, 200-240V, 50-60 Hz*
28-21459	Replacement Fuse 5A 250V Slow-Blow, Blower with 120V heater
10648-002	Replacement Fuse 2.5A 250V Slow-Blow, Blower with 230V heater
33-6501-01	Optional Air Filter Kit per fan
33-6004-01	Replacement Air Filter (6 pack)

* IEC power cord required; please contact Sales Services for details.

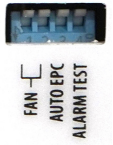
NOTE – Add suffix "A" on 91-6842 part numbers for the audible alarm feature.

Auto Emitter Point Cleaner

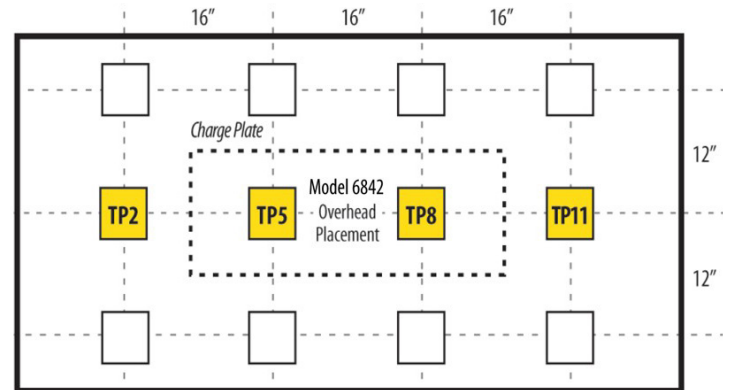
The Model 6842 with Heater features an emitter point Auto Clean System employing a brush mechanism to remove debris from the emitter points. A brief, incidental cleaning occurs during each power cycle when the unit powers up and powers down.



With the AUTO-EPC switch set to ON, a scheduled EPC auto clean is triggered every 7 days.



Typical Performance



Test Point	TP2	TP5	TP8	TP11
+Decay Time (s)	1.8	1.5	1.3	1.5
-Decay Time (s)	2.4	2.0	1.7	2.1
Balance (+Vp) (V)	5.2	-0.9	3.4	0.5
Balance (Vavg) (V)	3.5	-2.4	2.2	-1.2
Balance (-Vp) (V)	2.5	-3.9	1.1	-2.4

Test performed on Model 6842 Heater version (4-Fans, Heater off, Light off) in Simco-Ion Laboratory accordance to ESDA 3.1 Standards. Balance (V) and decay time (s) (1000-100V) test results employing high fan speed and overhead 18" from CPM measuring plate. Typical Performance is very similar when the heater is on or off.

Wide Coverage: ~2W x4L (~60 x 120 cm)



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SIMCO ION™
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