




Specifications

Input Voltage	100-240 VAC ($\pm 10\%$), 50/60 Hz
Output Voltage	100-240 VAC, 50-60 Hz unfused, 5A max
Discharge	$\pm 1000-100V$ @ < 3 sec, taken 18" away (45.7 cm) from the blower at high fan speed
Balance	$\pm 3V$ or better balance ($\pm 1V$ with the optional external feedback system)
Ion Emission	Steady-state DC
Emitter Points	ISO 14644 Class 4 (Fed. Std. 209e) Class 10 titanium, 8 per fan
Airflow	108 cfm per fan (typ)
Cleanroom Class	Meets ISO 14644-1 Class 4 (Fed. Std. 209E Class 10)
Operating Env.	Temperature 50-90°F (10-32°C); humidity 30-70% RH, non-condensing
Ozone	0.02 ppm or less
LED Indicators	Green POWER on; red FAULT alarm with optional AUDIBLE ALARM
Audible Noise	High fan speed 61 dB (typ); low fan speed 52 dB (typ); measurements taken 12" (30.5 cm) below fan
Mounting	Eye-bolts and S-hooks provided; U-shape bracket available
Controls	Balance adjust trimpot (1 per fan), 3-position fan switch (high/low/off) or fixed speed, sensor gain trimpot (optional; 1 per fan), sensor type or no sensor slide switch
Daisy-chain	10 units max; pwr cord (18 AWG) between units not to exceed 12" (304 mm) in length
Options	External sensor inputs, FMS 4-20 mA RJ-11 output (available with sensor option only), audible alarm, cord lock, Auto-Clean System
Enclosure	Aluminum chassis with epoxy-polyester powder coat
Dimensions	3.8H x 6.1D x 32L in. (9.6H x 15.5D x 81.3L cm); 3.8H x 6.1D x 40L in. (9.6H x 15.5D x 101.6L cm); 3.8H x 6.1D x 44L in. (9.6H x 15.5D x 111.8L cm)
Weight	Aluminum 44" unit 10.3 lb (4.6 kg)
Warranty	Two year limited warranty
Certifications	RoHS 2 Compliant   

Ordering Information

91-5810i-CzzH	Powder-coated white aluminum blower $\pm 3V$, high fixed fan speed (zz = 32", 40" or 44" length)
91-5810i-CzzX	Powder-coated white aluminum blower $\pm 3V$, low/high fan speed, (zz = 32", 40" or 44" length)
-FMS/SS	Adds FMS and sensor ($\pm 1V$ balance)
99-5810i-AALARM	Optional Audible alarm
99-8500i-01	Optional auto-clean system (requires one per fan)
25-20660	IEC power cable, US plug, 8.2 ft (2.5m)
25-0670	IEC power cable, US plug, 10 ft (3m)
25-0680	IEC power cable, US plug, 15 ft (4.6m)
25-0700	IEC power cable, no plug, 10 ft (3m)
25-20710	IEC power cable, UK plug, 8.2 ft (2.5m)
25-20735	IEC power cable, German-Schuko plug, 8.2 ft (2.5m)
25-20750	IEC power cable (China Plug), 8.2 ft (2.5m)
25-0720	Daisy-chain power cable
32-6405	U-shaped mounting bracket (2 needed per blower)

Fan Speed Choices

The 5810i was designed specifically for use in cleanrooms up to and including ISO 14644 Class 4 (Fed. Std. 209(e) Class 10) in cleanliness. To minimize disruption of laminar airflow, the unit has a 3-position fan setting that optimizes static discharge performance with the smallest volume and velocity of airflow.

Factory Monitoring System

The blower includes an LED alarm light that indicates a range of possible conditions, including absence of ionization at the emitter points, or a stopped fan. An optional Audible Alarm is available. The optional Facility Monitoring System (FMS) feature provides an industry-standard 4-20 mA signal to your work cell controller for remotely monitoring error detection.

Auto-clean System

The optional, Auto-clean System is an automated feature that provides reduced operation costs due to lower maintenance. The Auto-clean System features a brush mechanism that sweeps the emitter points when the blower is turned off and on, allowing the Model 5810i to continually perform at optimum ion output and balance.



$\pm 1V$ Operation

The Model 5810i ionizer's optional external feedback sensor operates with the Novx Process Monitor Series 7000, Novx Passive Detection System Series 3350 and Novx Active Detection System Series 3360 to detect and automatically correct the balance. With the antenna placed at the target area, feedback is sent to the Model 5810i blower's internal control system. This ensures that your target maintains a $\pm 1V$ or better balance at all times.

Daisy-Chain Connections

The Model 5810i Blower may connect with other Model 5810i Blowers (daisy-chain) in series using the female AC outlet provided on one end of the Blower. Up to 10 Blowers may be connected together.



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