



# Point-of-use Ionizing Blower

## MODEL 6421A

With a compact design and simple interface, the Point-of-use Ionizing Blower Model 6421A is an easy solution to electrostatic charge problems. Suitable to be mounted in tools and even process machinery, the blower requires very little maintenance and needs no calibration. The unobtrusive blower is the first of its kind designed as a permanent point-of-use device.

IsoStat technology makes Simco-Ion blowers the most reliable ionizers available. IsoStat enables them to operate without grounding wires or cables and still maintain ionizer balance. The blower's internal emitter points are electrostatically shielded to eliminate field-induced charging. Steady-state DC ion emission provides fast discharge with low airflow, for greater operator comfort.

Simco-Ion's stable point-of-use blower means simplicity for compact spaces.

### Features

- IsoStat® Technology
- Steady-state DC ion emission
- Compact design
- Shielded emitter points


### Benefits

- Intrinsically balanced; no calibration needed
- Efficient ion delivery
- Ideal for point-of-use applications including tools and process machinery
- No high electrostatic fields





## Specifications

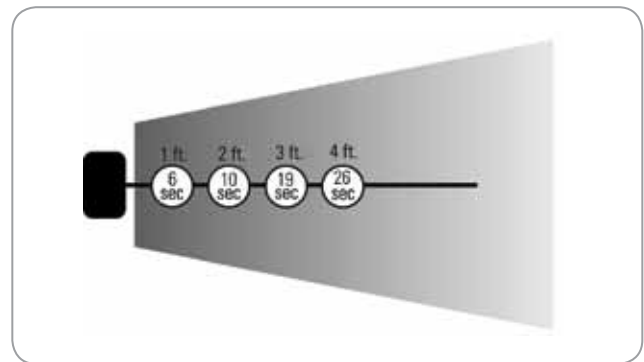
<b>Input Power</b>	24 VDC @ 100 mA
<b>Input Connector</b>	2.1 mm DC power jack (center positive) or RJ11 modular receptacle
<b>Ion Emission</b>	Steady-state DC
<b>Emitter Points</b>	Tungsten; internally shielded; 5-year life
<b>Ion Balance</b>	Better than $\pm 30V$ @ 1 ft
<b>Discharge Time</b>	$\pm 1,000$ to 100V
<b>Air Volume</b>	20 CFM max
<b>Operating Temp</b>	10-50°C (50-122°F)
<b>Mounting</b>	Two M4 threaded inserts (one of each side of the chassis)
<b>Material</b>	High impact ABS, gray
<b>Dimensions</b>	4.5H x 3.3W x 2D in. (11.4 x 8.4 x 5.1 cm)
<b>Weight</b>	7.7 oz (220g) without mounting stand; 12 oz (345g) with mounting stand
<b>Warranty</b>	2-year limited warranty
<b>Certifications</b>	

## Efficient Versatility

With a balance of better than  $\pm 30V$ , the Model 6421A can reduce static charge of  $\pm 1000V$  down to 100V in approximately six seconds at a distance of one foot. This superior performance means that the Model 6421A effectively controls static charge wherever you need it: mounted around the workstation, inside or on top of production equipment, and in the smallest of areas of your application.

## IsoStat Technology

Simco-Ion IsoStat Technology guarantees intrinsically balanced ionization and eliminates complicated feedback circuits. Ionizers incorporating this technology never need calibration and require very little maintenance. IsoStat is based on a law of physics, Conservation of Charge, which states that charge cannot be created or destroyed in an isolated system. By isolating the ionizer's emitter points from ground, IsoStat ensures equal numbers of positive and negative ions.



Testing was performed with a charged plate monitor in accordance with Ionization Standard ANSI EOS/ESD S3.1-1991 of the ESD Association.



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### Simco-Ion

Technology Group  
1750 North Loop Rd., Ste 100  
Alameda, CA 94502

Tel: 800.367.2452 (in USA)  
Tel: 510.217.0600

ioninfo@simco-ion.com  
www.simco-ion.com