



# Point of Use Ionizing Blower

## MODELS 6422e/6422e-AC

The Simco-Ion Point of Use Ionizing Blower Model 6422e is the most efficient small blower of its kind for controlling static discharge in hard-to-reach areas. In the tight confines of process tools, ionization must be easy and cost-effective, but carry the same level of sophistication found in larger ionizers. The Model 6422e meets the challenge of cost and features that your process demands by delivering worry-free ionization. The Model 6422e utilizes IsoStat technology, making it the most reliable blower of its kind.

The Model 6422e-AC incorporates our Auto-Clean system that cleans the emitter points each time the unit powers down. Automated cleaning reduces maintenance time, extends emitter point life and assures balanced performance.

### Features






- IsoStat® technology
- Small form factor available in steady-state DC ion emission blowers
- 24 VDC or 24 VAC input
- Facility Monitoring System (FMS) interface
- Operational failure alarm
- U-bracket mounting
- Auto-Clean System

### Benefits

- Self-balanced; no calibration needed
- Innovative design offers fast discharge times in confined (point of use) areas
- Can connect directly to your process equipment's power source or to your wall power
- Faster response to ionization failure with notification through tool or facility monitoring system
- Provides visual notification of any operational failures
- Flush or angled mounting means the blower will reach constrained spaces
- Reduced maintenance time, longer emitter point life, and assured balanced performance



## Specifications

<b>Input Voltage</b>	24 VDC ( $\pm 10\%$ ), 6W max or 24 VAC ( $\pm 10\%$ ), 50-60 Hz, 6W max
<b>Output Voltage</b>	5-6 kV at emitter points
<b>Discharge</b>	$\pm 1000-100V$ , <4 sec @ 1 <sup>1</sup> with either 24 VAC or 24 VDC
<b>Balance</b>	$\pm 20V$ @ 1' away
<b>Ion Emission</b>	Steady-state DC
<b>Emitter Points</b>	Tungsten wire; internally shielded
<b>Airflow</b>	23 cfm (typ)
<b>Cleanroom Class</b>	Meets ISO 14644-1 Class 5 (Fed Std. 209E Class 100)
<b>Operating Temp</b>	Temperature 50-95°F (10-35°C); humidity 20-60% RH, non-condensing
<b>Ozone</b>	<0.004 ppm (typ)
<b>LED Indicators</b>	Green POWER; red ALARM
<b>Mounting</b>	U-bracket, factory installed
<b>Dimensions</b>	With bracket: 4.95H x 4.10W x 2.48D in. (125H x 104W x 63D mm); without bracket: 4.36H x 3.26W x 2.48D in. (111H x 83W x 63D mm)
<b>Weight</b>	With bracket 12.7 oz (357g); without bracket 11.2 oz (314g)
<b>Warranty</b>	Two year warranty
<b>Certifications</b>	 RoHS 2 Compliant
<b>Transformer 14-1320-01</b>	
<b>Input Voltage</b>	120 VAC, 60 Hz
<b>Output Voltage</b>	24 VAC, 60 Hz @ 450 mA, $\pm 5\%$
<b>Dimensions</b>	3.4H x 2.3W x 1.9D (87 x 58.5 x 48 mm)
<b>Weight</b>	1 lb (0.45 kg)
<b>Certifications</b>	 RoHS Compliant
<b>Transformer 14-1330</b>	
<b>Input Voltage</b>	230 VAC $\pm 10\%$ , 50 Hz
<b>Output Voltage</b>	24 VAC @ 750 mA, $\pm 5\%$
<b>Dimensions</b>	2.8H x 2.5W x 1.9D in. (71H x 64W x 48D mm)
<b>Weight</b>	0.8 lb (0.36 kg)
<b>Certifications</b>	 RoHS Compliant
<b>AC Adapter 14-1322</b>	
<b>Input Voltage</b>	120-240 VAC $\pm 10\%$ , 50/60 Hz
<b>Output</b>	24 VDC @ 400 mA
<b>Dimensions</b>	1.4H x 2.1W x 3.4L in. (36H x 53W x 86L mm)
<b>Weight</b>	0.25 lb (0.11 kg)
<b>Certifications</b>	  RoHS Compliant

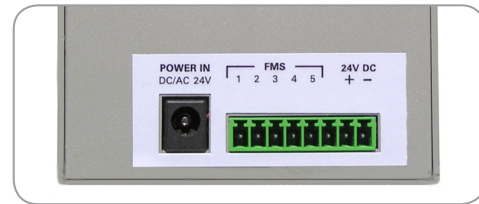
1 Tested in accordance with ANSI/ESD STM3.1-2006.

## Enhanced Capabilities

An alarm LED on the front of the blower indicates a high voltage circuitry failure and a five-pin facility monitoring system (FMS) interface is accessible on the rear of the blower. The FMS interface provides a 4-20 mA current loop and relay output connection. Together with the 24 VDC input connection, the FMS output is situated on a convenient terminal block, designed for easy integration with your process equipment.

## Power Options

The Model 6422e blower may be powered by 24 VAC or 24 VDC, from power supplies or directly from process equipment to fit your application. For 100-120 VAC input power, use #14-1320-01, for 230 VAC use #14-1330, and for applications where DC input power is preferred, use #14-1322 (performance may be reduced with DC power).



## Auto-Clean System

The Auto-Clean System features a brush mechanism that sweeps the emitter points when the blower is turned off and on. During operation of the fan, the brush automatically retracts to reduce wear. Simco-Ion recommends activating the Auto-Clean System at least once a week. Cleaning schedules will vary depending on environmental conditions. The Auto-Clean System significantly reduces the need for manual cleaning.

## Ordering Information

<b>91-6422e</b>	Model 6422 with Alarm Indicator Light and FMS
<b>91-6422e-AC</b>	Model 6422 with Auto-Clean
<b>92-6422e-AC-US</b>	Model 6422 with Auto-Clean; 120 VAC to 24 VAC Transformer
<b>14-1320-01</b>	120 VAC to 24 VAC, 60 Hz Wall Transformer (US/Japan plug)
<b>14-1330</b>	230 VAC to 24 VAC, 50 Hz Wall Transformer (EUR plug)
<b>14-1322</b>	24 VDC 120/230V 50/60 Hz AC-DC Adapter
<b>18-20285</b>	Wall Outlet Connector for 14-1322, US/Japan
<b>18-20286</b>	Wall Outlet Connector for 14-1322, United Kingdom
<b>18-20287</b>	Wall Outlet Connector for 14-1322, Europe
<b>18-20288</b>	Wall Outlet Connector for 14-1322, China

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