



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

Input Voltage	24 VDC (±10%), 6W max or 24 VAC (±10%), 50-60 Hz, 6W max
Output Voltage	5-6 kV at emitter points
Indicators	Green power LED and red alarm LED
Ion Emission	Steady-state DC
Emitter Points	Tungsten wire; internally shielded
Airflow	23 CFM (typ)
Discharge	±1000-100V, <4 sec @ 1 foot ¹ with either 24 VAC or 24 VDC
Balance	±20V @ 1 ft away
Cleanroom Class	Meets ISO 14644-1 Class 5 (Fed Std. 209E Class 100)
Ozone	<0.004 ppm, typical (24-hour accumulation)
Mounting	U-bracket, factory installed
Operating Temp	50-95°F (10-35°C)
Humidity	20-60% RH, non-condensing
Dimensions	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)
Weight	With bracket 12.7 oz (357g); without bracket 11.2 oz (314g)
Warranty	Two year warranty
Certifications	RoHS Compliant 
Transformer 14-1320	
Input Voltage	120 VAC ±10%, 50-60 Hz
Output	24 VAC, 60 Hz @ 450 mA, ±5%
Dimensions	2.4H x 2.2W x 1.6D in. (61 x 56 x 41 mm)
Certifications	RoHS Compliant 
Transformer 14-1330	
Input Voltage	230 VAC ±10%, 50 Hz
Output	24 VAC @ 750 mA, ±5%
Dimensions	2.8H x 2.5W x 1.9D in. (71H x 64W x 48D mm)
Certifications	RoHS Compliant 
AC Adapter 14-1322	
Input Voltage	120-240 VAC ±10%, 50/60 Hz
Output	24 VDC @ 400 mA
Dimensions	1.4H x 2.1W x 3.4L in. (36H x 53W x 86L mm)
Certifications	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, 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

91-6422e	Model 6422 with alarm indicator light and FMS
91-6422e-AC	Model 6422 with Auto-Clean
92-6422e-AC-US	Model 6422 with Auto-Clean; 120 VAC to 24 VAC transformer
14-1320	24 VAC 120V 60 Hz transformer
14-1330	24 VAC 230V 50 Hz transformer
14-1322	24 VDC 120/230V 50/60 Hz AC-DC adapter
18-20285	US/Japan wall outlet connector for 14-1322
18-20286	UK wall outlet connector for 14-1322
18-20287	Europe wall outlet connector for 14-1322
18-20288	China wall outlet connector for 14-1322

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