

Precision Ionizing System

MODEL 6422e/6422e-AC

SIMCO ION™
An ITW Company



The 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 features our self-balancing IsoStat® Technology and an alarm output feature that notifies the user immediately. This new feature, designed to recognize Industry 4.0 requirements, makes this the most reliable blower of its kind.

The Model 6422e meets the challenge of cost and features that your process demands by delivering worry-free ionization. The Model 6422e-AC is the same as the Model 6422e with the addition of our Auto Clean System.

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
- ✓ Auto Emitter Point Clean (Model 6422e-AC)
- ✓ U-bracket mounting

BENEFITS

- ✓ Self-balanced; no calibration needed
- ✓ The innovative design offers fast discharge times in confined (point-of-use) areas
- ✓ Can connect directly to your process equipment's power source or your wall power
- ✓ Faster response to ionization failure with notification through tool or FMS
- ✓ Automates emitter point cleaning reducing maintenance costs and time
- ✓ The flush or angled mounting means the blower will reach constrained spaces

invisible problems
visible results™
Tackling Static & Particulate Contamination

Model 6422e/6422e-AC	
Input Voltage	24 VDC (±10%) or 24 VAC (±10%), 50-60 Hz, 6W max
Discharge¹	24 VAC Input: <4 sec @ 12" (30.5 cm); ±1000-100V 24 VDC Input: <5 sec @ 12" (30.5 cm); ±1000-100V
Balance	±10V @ 12" (30.5 cm) away
Ion Emission	IsoStat Technology
Emitter	Tungsten wire; internally shielded
Cleanroom Class	ISO 14644-1 Class 5
LED Indicator	Green POWER and red ALARM
Airflow	23 cfm (typ)
Ozone	<0.004 ppm (typ)
Operating Env	50-95°F (10-35°C); 30-60% RH, non-condensing
Mounting	U-bracket, factory installed
Dimension	With Bracket: 4.95"H x 4.10"W x 2.48"D (12.6 x 10.4 x 6.30 cm) Without Bracket: 4.36"H x 3.26"W x 2.48"D (11.1 x 8.28 x 6.53 cm)
Weight	With Bracket 0.79 lb (0.36 kg) Without Bracket 0.7 lb (0.32 kg)
Warranty	Two year warranty
Certification	CE   UKCA
Wall Transformer 14-1420-01	
Input Voltage	120 VAC ±10%, 60 Hz
Output Voltage	24 VAC, 60 Hz @ 500 mA, ±5%
Dimension	3.2"L x 2.2"W x 1.9"H (8.15 x 5.65 x 4.85 cm)
Weight	0.9 lb (0.45 kg)
Certification	cULus 
Wall Transformer 14-1430-01	
Input Voltage	230 VAC ±10%, 50 Hz
Output Voltage	24 VAC, 50 Hz @ 500 mA, ±5%
Dimension	3.2"L x 2.2"W x 1.9"H (8.15 x 5.65 x 4.85 cm)
Weight	0.9 lb (0.45 kg)
Certification	CE 
AC/DC Adapter 14-1322	
Input Voltage	120-240 VAC ±10%, 50/60 Hz
Output	24 VDC @ 400 mA
Dimension	1.31"H x 2.00"W x 2.85"L (3.32 x 5.08 x 7.25 cm)
Weight	0.25 lb (0.11 kg)
Certification	CE cULus 

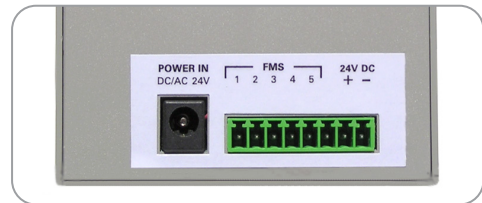
1. Tested in accordance with ANSI/ESD STM3.1.

Auto-Clean System

The Auto-Clean System in Model 6422e-AC features a brush mechanism that sweeps the emitter points when the blower is turned off and on. During the operation of the fan, the brush automatically retracts to reduce wear. Cleaning schedules will vary depending on environmental conditions. Simco-Ion recommends activating the Auto-Clean System at least once a week, significantly reducing maintenance time, extending emitter point life and ensuring balanced performance.

Enhanced Capabilities

An alarm LED on the front of the blower indicates a high voltage circuitry failure. 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 Blower may be powered by 24 VAC or 24 VDC from power supplies or directly from process equipment to fit your application.

Ordering Information

91-6422e-02	Model 6422e
91-6422e-AC-02	Model 6422e-AC (Auto-Clean included)
92-6422e-AC-US	Model 6422e-AC (Auto-Clean included) and 120 VAC to 24 VAC Transformer
14-1420-01	Wall Transformer, 120V/24 VAC 500 mA, 5.5 x 2.1 x 12 mm plug, 6 ft (1.8m) cord, US
14-1430-01	Wall Transformer, 230V/24 VAC 500 mA, 5.5 x 2.1 x 12 mm plug, 6 ft (1.8m) cord, EU
14-1322	24 VDC Universal Input AC/DC Adapter*

* Wall outlet connector required, contact Sales Services for detail.



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