Point of Use Ionizing Blower

MODEL 6432e

Simco-Ion's Point of Use Ionizing Blower Model 6432e controls static discharge in assembly, inspection, and packaging areas. The Model 6432e can also be used in-tool to control static build-up problems such as product contamination, material mis-handling or microprocessor lock-up.
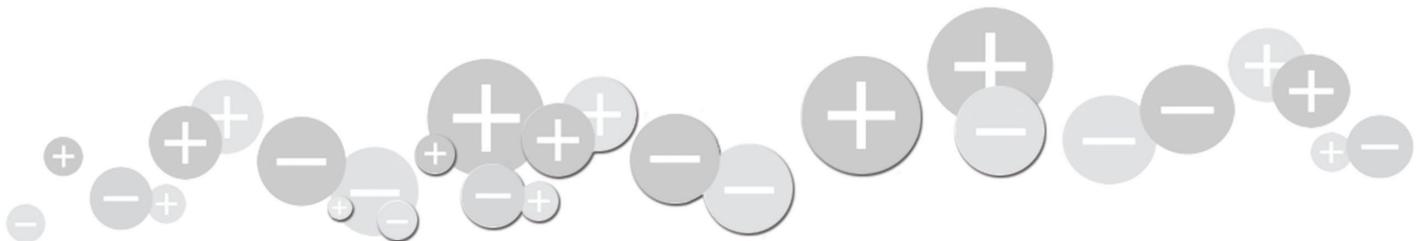
IsoStat technology provides several useful benefits for the 6432e blower. It's small size and ability to operate in balance without grounding wires or cables allows easy and quick installation and setup. The blower's internal emitter points are electrostatically shielded to eliminate field-induced charging. Steady-state DC operation provides fast discharge with low airflow for greater operator comfort.

Features

- IsoStat® technology

- Steady-state DC ion emission

- 24 VDC or 24 VAC input power

- Facility Monitoring System (FMS) interface

- Operational failure alarm

- Small footprint design with in-tool stand or benchtop stand

Benefits

- Intrinsically balanced; no calibration needed

- Minimum ion recombination provides maximum static control

- Convenient power options, well-provided AC or tool-provided DC

- Faster response to ionization failure with notification through tool or facility monitoring system

- Provides visual notification of any operational failures

- Occupies little work or tool space; cleanroom-compatible (minimizes disruption of laminar flow)

Input Voltage	24 VDC (±10%), 6W max or 24 VAC (±10%), 50-60 Hz, 6W max
Discharge[1]	±1000-100V <4 sec @ 1' with 24 VAC (<5 sec @ 1' with 24 VDC)
Balance	±20V @ 1' away
Ion Emission	Steady-state DC
Emitter Points	Tungsten wire; internally shielded
Airflow	49 cfm (typ)
Cleanroom Class	Meets ISO 14644-1 Class 5 (Fed Std. 209E Class 100)
Ozone	<0.005 ppm (typ)
LED Indicators	Green POWER; red ALARM
Mounting	Small in-tool bracket/stand (1.8 x 5.1 in./45 x 129 mm); large benchtop stand (4.1 x 5.1 in./108 x 129 mm); both with 1/4" mounting hole and 10-32 truss head screws
Dimensions	5.3H x 5.0W x 2.5D in. (133 x 127 x 63 mm); small bracket base is 1.8" (45 mm); large stand base is 4.1" (108 mm)
Weight	21 oz (595g) with benchtop stand
Warranty	2-year warranty
Certifications	CE ⚠ EN 61010-1 ⚠ RoHS2

Transformer 14-1420-01	
Input Voltage	120 VAC ±10%, 60 Hz
Output Voltage	24 VAC, 60 Hz @ 500 mA, ±5%
Dimensions	3.0H x 1.9W x 1.6D in. (76.5 x 48.5 x 40 mm)
Weight	0.9 lb (0.4 kg)
Certifications	c(UL)us RoHS2

Transformer 14-1430-01	
Input Voltage	230 VAC ±10%, 50 Hz
Output Voltage	24 VAC, 50 Hz @ 500 mA, ±5%
Dimensions	3.2H x 2.2W x 1.9D in. (81.5 x 56.5 x 48.5 mm)
Weight	0.9 lb (0.4 kg)
Certifications	CE RoHS2

AC Adapter 14-1322	
Input Voltage	120-240 VAC ±10%, 50/60 Hz
Output Voltage	24 VDC @ 400 mA
Dimensions	1.4H x 2.1W x 3.4L in. (36 x 53 x 86 mm)
Weight	0.25 lb (0.11 kg)
Certifications	c(UL)us CE RoHS2

1. Tested in accordance with ANSI/ESD STM3.1-2015.

Enhanced Features

The Model 6432e offers both an alarm LED on the front of the blower that indicates a high voltage circuitry failure, and a five-pin facility monitoring system (FMS) interface. 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

For increased flexibility, the Model 6432e Blower can be directly powered by process equipment or 24 VDC/VAC power to fit the needs of your environment. For 100-120 VAC input power, use transformer #14-1420-01; for 230 VAC, use #14-1430-01; and for applications where DC input power is preferred, use #14-1322 or another 24 VDC source (performance will be reduced using DC power).

The Model 6432e is offered with a smaller in-tool stand (shown here) or a larger benchtop stand, shown in the photo on the front of the datasheet.

Ordering Information

92-6432e-US	6432e Ionizing Blower; benchtop stand; 120 VAC to 24 VAC transformer
91-6432e	6432e Ionizing Blower with alarm indicator light and FMS
32-6433	Benchtop stand
32-6434	In-tool stand
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 120/230V 50/60 Hz AC-DC Adapter
18-20285	Wall Outlet Connector for 14-1322, US/JP
18-20286	Wall Outlet Connector for 14-1322, UK
18-20287	Wall Outlet Connector for 14-1322, EU
18-20288	Wall Outlet Connector for 14-1322, CN

worldwide leaders in **static control**