Local Benchtop Ionizer- ION 85

The Ion 85 and 85e Local Area Ionizing Blower controls static discharge in assembly, inspection, packaging areas, and intool wherever static build-up can cause contamination, ESD, material-handling problems or microprocessor lock-up.

Patented IsoStat technology makes the Ion 85 and 85e the most reliable ionizers available. IsoStat characteristics include small size and operation without grounding wires or cables while still maintaining ionizer balance. The Ion 85's internal emitter points are electrostatically shielded to eliminate field-induced charging. Steady-state DC ion emission to provide fast discharge with low airflow for greater operator comfort, the Ion 85's blower offers the best of IsoStat technology.

Features

- IsoStat® Technology
- Steady-state DC ion emission
- 24 VDC or 24 VAC input
- Facility Montoring System (FMS) interface
- Operational failure alarm (Ion 85e)
- Small footprint design with in-tool stand or benchtop stand

Benefits

- Intrinsically balanced; no calibration needed
- Efficient ion delivery
- Connects direclty to your processs equipment's power source
- Intergrates 4-20 mA current loop and relay output to your monitoring system
- Notification of any operational failures
- Takes up little workspace; cleanroom-compatible (minimizes disruption of laminar flow)

Enhanced Features

In addition to the standard features on the Ion 85, the enhanced Ion 85e offers an alarm LED on the front of the blower that indicates a high voltage circuitry failure and a fivepin 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 Ion 85e can be directly powered by process equipment or 24 VDC/VAC power to fit the needs of your environment. Two transformers are available: 120 VAC/60 Hz (transformer 14-1320) or 230VAC/50 Hz (transformer 14-1330). (See Figure A)

STOPESD affordable ESD solutions

P.O. Box 19338, Rye, CO 81019
***Direct:* 719-676-2544 *Fax:* 719-676-2549**
***Email:* sales@stopesd.com**
www.stopesd.com

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Local Benchtop Ionizer – ION 85

Input	24 VDC (±10%), 6 watts max.or 24 VAC (±10%), 50-60 Hz, 6 watts max.
Power Indicator	Green power LED; red alarm LED available on Model Ion 85e
Ion Emission	Steady-state DC
Emitter Points	Tungsten wire; internally shielded;
Airflow	49 CFM, typical
Ozone	<0.005 ppm (24-hour accumulation)
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 inches (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 large stand
Warranty	2-year limited warranty
Certifications	CE (pending),

Ion 320 Wall Transformer

Input Voltage	120 VAC ±10%, 60 Hz
Output	24 VAC @450 mA
Certifications	

Ion 330 Wall Transformer

Input Voltage	230 VAC, 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	CE

Ion 322 Wall Transformer

Input Voltage	90-264 VAC, 50 Hz
Output	24 VAC @ 417 mA
Dimensions	1.4H x 2.1W x 3.4L in. (36H x 53W x 86L mm)
Certifications	CE

Figure A

Patented IsoStat Technology

The ION 85's patented 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.

The Ion 85 and 85e are offered with smaller in-tool stands (shown here) or larger benchtop stands.

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