

Innovative

Model 7380i *Preliminary*

CoreStat® Self-Balanced DC Bar Ionizer



FEATURES

- Steady-State DC Ion Emission
- Intrinsic Self-Balance Technology
- Very Low Offset Voltage
- Audio & Visual LED Alarms
- Class 0 ESD Control Application
- FMS Monitoring Interface

BENEFITS

- Ion Balance Alarms
- HV Power Failure Alarms
- No Calibration
- No Swing Voltage
- No Induction Field

APPLICATIONS

Model 7380i CoreStat® Self-Balanced DC Bar Ionizer is designed to provide ionization for the ESD sensitive device handling areas such as semiconductor back-end, surface mount process and telecommunication component handling applications. QuadPoint® nozzle design does not generate induction field by AC swing voltage source which could lead an ESD damage on device during processes.

Model 7380i CoreStat® Steady-State DC Bar Ionizer is designed for versatile ESD control applications, especially suited for space limited environment such as inside of automated handling equipment (AHE) and manual assembly areas. CoreStat® Steady-State DC technology is intrinsic self-balanced power supply designed that removed calibration procedure to maintain low offset voltage for ESD safe handling. With LED display and audio alarms, users can identify ion balance and HV power failure status.

Innovative Model 7380i CoreStat® Self-Balanced DC Bar Ionizer

Specifications

Input Voltage	24 VDC, 300 W Maximum
Output Voltage	0 to ± 5 kV, No Calibration
Ion Emission	Steady-State DC Technology
Ion Balance	Less than ± 35 V
Output Control	Intrinsic Self-Balanced
Emitter Point	Titanium Alloy, Tungsten 99.99%
Alarm	Visual & Audio alarm operates for power failures
Monitoring	RJ-45 Interface
Display	LED (Green & Red)
Operating Environment	Temperature: 15 - 35°C Humidity: 35 - 75% RH
Material	Enclosure: ABS plastic Bracket: Stainless Steel
Dimensions (mm)	62.5H x 30D x 350L mm
Warranty	1 year limited warranty
Certification	



**Patent Design*

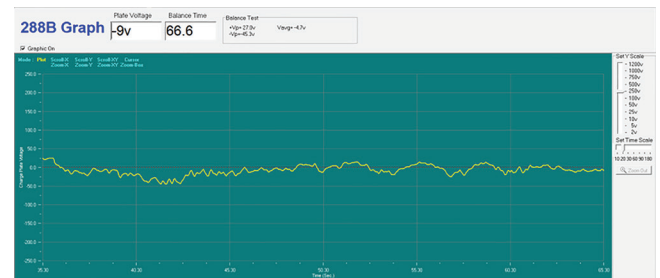
- 1/4 Turn Easy Emitter Point Replacement
- Titanium Alloy Emitter Point
- Tungsten 99.99% Emitter Point

Ion Balance Test Results

AC Switching Voltage can cause of ESD Damage by Induction

- ANSI/ESD STM3.1 & S20.20 - Offset Voltage means for DC based ionizer
- Offset Voltage measurement should be change to Peak Voltage
- Test Equipment - Model 288B CPM by Monroe Electronics

- No Switching Voltage from Steady-State DC Ionizer



- Induction Switching Voltage from Pulsed AC Ionizer
- Peak-to-Peak value: +305V to - 393V.



FMS Output Signal

Condition	FMS 3~4
Normal	Open
Alarm	Closed

Related Products & Ordering Information

Model 5780ET	Titanium Emitter Point
Model 5780EP	Tungsten Emitter Point
Model 5170D	RJ-45 Terminal DC Adapter, 100 - 240 VAC 50/60Hz
Model 7380i-xxxx	xxxx mm length of Model 7380i

Size & Dimensions (mm)

