

Innovative

Model 7380d *Patent Design*

AirStat® Steady-State DC Bar Ionizer



FEATURES

- Steady-State DC Ion Emission
- Output Voltage Adjustable
- 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 Swing Voltage
- No Induction Field

APPLICATIONS

Model 7380d AirStat® Steady-State 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 7380d AirStat® 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. AirStat® Steady-State DC technology is adjustable linear output voltage and maintain offset balance at very low level for ESD safe handling. With LED display and output audio alarms, users can identify ion balance and HV power failure status.

Innovative Model 7380d AirStat® Steady-State DC Bar Ionizer

Specifications

Input Voltage	24 VDC, 300 W Max
Output Voltage	0 to ± 4.0 kV, 10V resolution adjustable
Ion Emission	Steady-State DC Technology
Ion Balance	Less than ± 25 V per ANSI/ESD SP3.5
Decay Time	Less than 2 second at 300mm
Output Control	IR Remote Controller
Emitter Point	Single Crystal Silicon and Tungsten 99.99%
Alarm	Visual & Audio alarm operates for balance alarm, HV power failures.
Display	4 Digit LED
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	CE RoHS



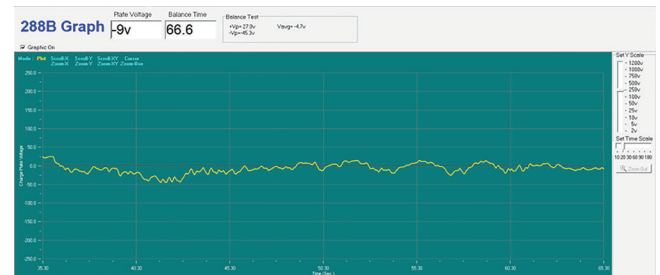
**Patent Design*

- 1/4 Turn Easy Emitter Point Replacement
- Single Crystal Silicon 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 Swing Voltage from Steady-State DC Ionizer



- Induction Field Swing 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 5780EP	Single Crystal Silicon Emitter Point
Model 5711R	Remote Controller
Model 5170D	RJ-45 Terminal DC Adapter, 100 - 240 VAC 50/60Hz
Model 7380-xxxx	xxxx mm length of Model 7380

Size & Dimensions (mm)

