



μWire AeroBar[®]

MODEL 5710

Simco-Ion's μWire AeroBar Model 5710, is a cost-effective, high-performance ionizer specifically designed to eliminate static charge on sensitive flat panels where fast discharge times and low swing voltages are desired. The μWire Bar utilizes MicroPulse Technology applied to a corona wire system for optimal performance. MicroPulse Technology reduces ion recombination at the corona wire, thus increasing product efficiency and performance. Using this breakthrough technology, the μWire Bar maintains peak performance for longer periods between cleanings, resulting in extended cleaning cycles compared with conventional products.

The μWire Bar is optimized for lower gas consumption through its unique corona wire design. Corona wire produces more ions than emitter points, thus less gas is needed to effectively ionize the target area. The corona wire design combined with optimal positioning of the gas orifices along the emitter cartridge offers a lower cleaning frequency over time.

Features



- Unique corona wire design (no emitter points)
- MicroPulse high voltage technology
- User-set levels for frequency, power and balance

Benefits

- Cleaning intervals are significantly longer than emitter point products
- Cleaning the bar is a single swipe taking a few seconds, that can be done with the bar mounted in position
- High concentration of ions reduces gas consumption
- Long ion-generating surface allows bars to be mounted closer to work surfaces
- Long-term stability in balance and decay time performance, extending beyond what any emitter-point technology product can achieve
- Uniform balance over the length of the bar
- Lower cost-of-ownership than emitter-point technology ionizers
- Optimize performance for specific applications, or use standard defaults for "plug-and-play"



Specifications

Input Voltage	24V DC $\pm 10\%$, 12W (max)
Output Voltage	Adjustable, 13 kV pk-pk (typ)
Range	100-1000 mm; application and specification dependent
Frequency	Default setting at 5 Hz, adjustable from 0.1-35 Hz
Balance	Inherently self-balancing system $< \pm 25V$ over the length of the bar; maintain balance setting > 3 months without cleaning
Ion Emission	Micropulsed high voltage technology
Corona Wire	Tungsten, 100 micron dia.
Gas Supply	Clean dry air (CDA)
Inlet Pressure	50 psi (max); gas flow rate 1.3 lpm (typ per orifice), 3.0 lpm (max)
Cleanroom Class	ISO 14644-1 Class 4 (Fed Std. 209E Class 10)
Operating Env.	Temperature 15-35°C (59-95°F); humidity 30-60% RH, non-condensing
Ozone	< 0.05 ppm
EMI	Below background level
Bar Settings	All operating parameters set via a wired handheld terminal (HHT)
LED Indicators	Green POWER; Yellow COMMUNICATION; Red ALARM (combinations of LEDs indicate specific status conditions of the bar)
Enclosure	ABS chassis; stainless steel reference plates
Dimensions	3.3H x 1.3W x 15.75/19.7/25.6/29.5/35.4/39.4/45.3/49.2/55.1/59.1/65/68.9/74.8/78.7/5/84.65/88.6/94.5/98.4/104.3/108.25/114.15/118.1L in. (84H x 33W x 400/500/650/750/900/1000/1150/1250/1400/1500/1650/1750/1900/2000/2150/2250/2400/2500/2650/2750/2900/3000L mm)
Warranty	Two year warranty
Certifications	  RoHS Compliant

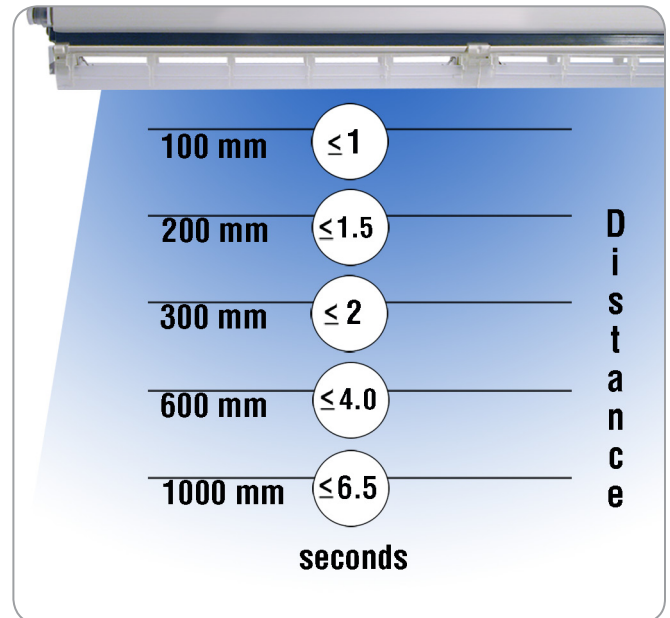
Ordering Information

91-5710-xxxx-01	Model 5710 in 400/500/650/750/900/1000/1150/1250/1400/1500/1650/1750/1900/2000/2150/2250/2400/2500/2650/2750/2900/3000 mm lengths
91-5710-HHT-01	Handheld Terminal (HHT) with 4-line LCD display and two 15 ft (4.5m) cables
33-5701-01	24VDC Power supply with 15 ft cable to 5710 (requires 1 power cord, see below)
33-5700-01	Power-Signal Distribution Box
33-1710-xx	Interconnect cable, xx = 10, 15, 20, 40 ft lengths
32-2213-SC	5710 Flush Mounting Bracket, SST (require 2 per bar < 1800 mm, 3 per bar between 1800-2450 mm, 4 per bar > 2450 mm lengths)
32-2211-01	5710 Rotatable Mounting Bracket, SST (require 2 per bar < 1800 mm, 3 per bar between 1800-2450 mm, 4 per bar > 2450 mm lengths)
25-20xxx	IEC Power Cord, xxx = 660 (US plug), 710 (UK plug), 735 (German Schuko plug), 750 (China plug)
25-05xx	CAT-5 Cable, xx = 04, 10, 15 ft lengths

Application Flexibility

The μ Wire AeroBar can be operated using its factory settings (“plug and play”), or users can adjust a variety of parameters to optimize performance for a specific application and product sensitivity requirement. It can be easily installed and optimized for a wide variety of applications including in-tool, mail-slot, conveyor and load/unload cassette applications. Multiple bars in one tool can be “slaved” to a master bar. Bars can be operated either horizontally or vertically.

Discharge Performance



Measured using Simco-Ion CPM Model 280A with HEPA flow (60 fpm or 0.3m/sec) & CDA flow @ 1.3 lpm.

Handheld Terminal (HHT)

The wired handheld terminal allows you to set all operating parameters. The 4-line LCD readout can display real-time monitored values for system diagnostics, including bar address, frequency, HV output level, standby mode, alarm test and firmware revision. A single HHT can be used to adjust and monitor all bars in a facility individually, or to a number of bars daisy-chained together.



Power-Signal Distribution Box

Use the Power-Signal Distribution Box when the installation/operation of the bar results in the inability to see the status lights or access for configuration changes.



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