



ADVANCED ESD PROTECTION MICRO SERIES



Micro Series	5941	5822i	4604	4612 Mini	fusION & fusION AA	Micro S & SA
Feature	<ul style="list-style-type: none"> ±3V or better balance Warning/alarm 2 level notification Compact Size Auto-clean System Collimator option 	<ul style="list-style-type: none"> Small footprint FMS connection, audible alarm ±3V or better balance, ±1V w/Novx System Separate Control Box 	<ul style="list-style-type: none"> Compact design Integrated sensor provides stable <±10V balance FMS connection through 4062e controller 	<p>Designed to provide closed-loop feedback control static neutralization in environments with low to elevated temperatures from 58°F to 302°F (-50°C to +150°C); enclosed in hi-temp PEEK chassis</p>	<ul style="list-style-type: none"> Auto-balancing fusION: increase performance with optional fan assembly fusION AA: Air-assist connection allows use of CDA or N₂ to improve performance Visual status indicator & digital level remote alarm output 	<ul style="list-style-type: none"> Auto-balancing Compact design Micro S: No airflow operation Micro SA: CDA airflow for better performance
Discharge	<p><4 sec @ 12" (30.5 cm) w/o collimator</p> <p><3 sec @ 12" (30.5 cm) w/collimator</p>	<p><2.5 sec @ 12" (30.5 cm)</p>	<p><5 sec (typ) @ 6" (150 mm), 30 psig (207 kPa), ±1,000V to ±100V</p>	<p>Laminar Flow 10 sec @ 12" (30.5 cm) (100 fpm)</p>	<p>fusION w/o fan: <15 sec @ 6" (15.2 cm) w/fan: <10 sec @ 12" (30.5 cm)</p> <p>fusION AA: <5 sec @ 6" 10 psi gas pressure</p>	<p>Micro S: <10 sec @ 3"</p> <p>Micro SA: <8 sec @ 6" (0.71 cfm min airflow)</p>
Balance	±3V or better	±3V or better, ±1V with Novx	<±10V (typ) @ 6" (150 mm)	±10V or better	±50V	<p>Micro S: <±30V</p> <p>Micro SA: <±20V</p>
Ion Emissions	Steady-state DC Technology	Steady-state DC Technology	Steady-state DC Technology	Steady-state DC Technology	Steady-state DC Technology	Piezoelectric Technology
Cleanroom Class	ISO 14644-1 Class 3	ISO 14644-1 Class 4	ISO 14644-1 Class 4	ISO 14644-1 Class 4	ISO 14644-1 Class 4	ISO 14644-1 Class 5
Airflow	17 cfm max	20.5 cfm	0.5 scfm (0.8 Nm ³ /h) @ 5 psig (34 kPa) to 3 scfm (5.1 Nm ³ /h) @ 30 psi (207 kPa)	100 fpm CDA or N ₂ (99.99% purity) passing through	CDA or N ₂ (0.5-4 scfm @ 5-50 psi)	<p>Ambient Airflow (200 fpm)</p> <p>Micro SA: CDA (0.35-1.06 cfm)</p>
Dimension	<p>4.33"H x 3.15"W x 1.60"D (11.0 x 8.00 x 4.06 cm) w/o bracket, w/o collimator</p> <p>4.33"H x 3.15"W x 2.93"D (11.0 x 8.00 x 7.45 cm) w/o bracket, w/collimator</p>	<p>Blower: 4.57"H x 3.27"W x 3.47"D (11.6 x 8.31 x 8.81 cm)</p> <p>Control Box: 1.0"H x 5.2"W x 2.35"D (2.54 x 13.2 x 5.97 cm)</p>	<p>4.25"L x 1.32"W x 1.75"H (108 x 33.5 x 44.5 mm)</p>	<p>Ionizer: 4.50"L x 1.53"H x 1.08"W (11.4 x 38.9 x 2.74 cm)</p> <p>Sensor: 1.75 dia x 0.86"H (4.45 x 2.18 cm)</p>	<p>1.20"H x 1.28"W x 4.50"L (3.01 x 3.25 x 11.4 cm)</p>	<p>2.5"L x 1.6"W x 0.65"H (6.35 x 4.06 x 1.65 cm)</p> <p>Micro SA adds 0.40" (1.02 cm) to length of chassis</p>
Weight	<p>0.70 lb (0.32 kg) w/o collimator</p> <p>0.72 lb (0.33 kg) w/collimator</p>	<p>Blower: 1.14 lb (0.52 kg)</p> <p>Control Box: 0.56 lb (0.25 kg)</p>	0.69 lb (0.32 kg)	<p>Ionizer: 0.75 lb (0.34 kg)</p> <p>Sensor: 0.30 lb (0.136 kg) including cable</p>	<p>fusION w/o fan: 0.25 lb (0.113 kg)</p> <p>fusION w/fan: 0.30 lb (0.136 kg)</p>	<p>Micro S: 0.035 lb (0.016 kg)</p> <p>Micro SA: 0.042 lb (0.019 kg)</p>