



ADVANCED ESD PROTECTION



Micro Series	Model 5941	6422e (AC)	Model 5822i	Model 4612 Mini	Model fusION & fusION AA	Model Micro S & SA
Feature	Auto-clean System Visual indicators FMS interface for fan fault & out of balance Exclusive 2-level balance alarm notification	Auto-balancing FMS interface for immediate notification of operational failure 6422e-AC: Auto-clean System	Composed of a Fan Unit and Control Box Designed to meet small-footprint ionizer requirements for $\pm 3V$ or better balance, or $\pm 1V$ or better balance with Novx monitoring	Designed to provide closed-loop feedback control static neutralization in environments with low to elevated temperatures from $-58^{\circ}F$ to $302^{\circ}F$ ($-50^{\circ}C$ to $+150^{\circ}C$); enclosed in hi-temp PEEK chassis	Auto-balancing fusION: Optional fan assembly to increase performance fusION AA: Air-assist connection allows use of CDA or N_2 to improve performance Visual status indicator & digital level remote alarm output	Auto-balancing Compact design Micro S: For no airflow operation Micro SA: Uses CDA airflow where better performance is required
Discharge	<4 sec @ 12" (30.5 cm)	<4 sec @ 12" (30.5 cm)	<2.5 sec @ 12" (30.5 cm)	Laminar Flow 10 sec @ 12" (30.5 cm) (100 fpm)	fusION w/o fan: <15 sec @ 6" (15.2 cm) w/fan: <10 sec @ 12" (30.5 cm) fusION AA: <5 sec @ 6" 10 psi gas pressure	Micro S: <10 sec @ 3" Micro SA: <8 sec @ 6" (0.71 cfm min airflow)
Balance	$\pm 3V$ or better	$\pm 10V$ or better	$\pm 3V$ or better, $\pm 1V$ with Novx	$\pm 10V$ or better	$\pm 50V$	Micro S: $<\pm 30V$ Micro SA: $<\pm 20V$
Ion Emissions	Steady-state DC Technology	IsoStat Technology	Steady-state DC Technology	Steady-state DC Technology	Steady-state DC Technology	Piezoelectric Technology
Cleanroom Class	ISO 14644-1 Class 5	ISO 14644-1 Class 5	ISO 14644-1 Class 4	ISO 14644-1 Class 4	ISO 14644-1 Class 4	ISO 14644-1 Class 5
Airflow	17 cfm	23 cfm	20.5 cfm	100 fpm CDA or N_2 (99.99% purity) passing through	CDA or N_2 (0.5-4 scfm @ 5-50 psi)	Ambient airflow (200 fpm) Micro SA: CDA (0.35-1.06 cfm)
Dimension/Weight	4.33"H x 3.15"W x 1.60"D (11.0 x 8.00 x 4.06 cm) 0.55 lb (0.25 kg)	4.95"H x 4.10"W x 2.48"D (12.5 x 10.4 x 6.30 cm) 0.79 lb (0.36 kg) with bracket	Blower: 4.57"H x 3.27"W x 3.47"D (11.6 x 8.31 x 8.81 cm) 1.14 lb (0.52 kg) Control Box: 1.0"H x 5.2"W x 2.35"D (2.54 x 13.2 x 5.97 cm) 0.56 lb (0.25 kg)	Ionizer: 4.50"L x 1.53"H x 1.08"W (11.4 x 38.9 x 2.74 cm) 0.75 lb (0.34 kg) Sensor: Dia 1.7" x 0.9"H (4.4 x 2.3 cm) 0.3 lb (0.14 kg) including cable	1.20"H x 1.28"W x 4.50"L (3.01 x 3.25 x 11.4 cm) fusION w/o fan: 0.25 lb (0.113 kg) fusION w/fan: 0.30 lb (0.136 kg)	2.5"L x 1.6"W x 0.65"H (6.35 x 4.06 x 1.65 cm) Micro S: 0.035 lb (0.016 kg) Micro SA: 0.042 lb (0.019 kg)