



SCS IONIZER SELECTION GUIDE

This chart will help you determine the ionizer that best fits your application.

| Item Number | 960 | 963E | 9110-NO | 991A | 9310-NO | 770112 | 770113 | 980 |
|--------------------------|---|---|---|--|---|---|---|---|
| Image |  |  |  |  |  |  |  |  |
| Ionizer Type | In-Tool | Benchtop | Benchtop | Overhead | Overhead | Overhead | Overhead | Air Gun |
| Fan Count | 1 | 1 | 1 | 3 | 3 | 2 | 3 | - |
| Maximum Airflow | 24 CFM | 112 CFM | 108 CFM | 300 CFM | 321 CFM | 200 CFM | 300 CFM | 2.3 CFM @ 30 psi |
| Balance (Offset Voltage) | ±20V | ±15V | ±15V | ±10V | ±15V | ±10V | ±10V | ±30V |
| Discharge Time | <4 seconds @ 1 ft | <2 seconds @ 1ft | ≤2 seconds @ 1 ft | ≤3 seconds @ 18 in | <3.5 seconds @ 18 in | < 3 seconds @ 18 in | < 3 seconds @ 18 in | <1 second @ 6 in (30 psi) |
| Ion Emission | Steady-state DC | Steady-state DC | Steady-state DC | AC ionization | Steady-state DC | Steady-state DC | Steady-state DC | Steady-state DC |
| Special Feature | Compact size | Auto balance | Automatic emitter cleaner | LED lights and heater | Automatic emitter cleaner | LED panel lights and replaceable emitters | LED panel lights and replaceable emitters | Ergonomic gun design |
| Dimensions | 4.5H x 3.3W x 2.0D in | 9H x 8.5W x 4.5D in | 9H x 7W x 4D in | 4H x 42.8W x 6.8D in | 5H x 42W x 7D in | 3.9H x 6.6W x 22.3D in | 3.9H x 6.6W x 37.3D in | 8L x 3W x 1D in (gun) 8.5L x 3.0W x 1.6D in (console) |
| Weight | 0.8 lbs | 2.5 lbs | 2.9 lbs | 16.0 lbs | 10.8 lbs | 7.0 lbs | 10.0 lbs | 0.8 lbs (gun + hose) 0.7 lbs (console) |
| Certifications | UL, C-UL | UL, C-UL, CE | UL, C-UL, CE | UL, C-UL, CE | UL, C-UL, CE | CE | CE | UL, C-UL, CE |
| Country of Origin | China | China | China | United States of America | China | United States of America | United States of America | China |

"Ionization or other charge mitigating techniques shall be used at the workstation to neutralize electrostatic fields on all process essential insulators if the electrostatic field is considered a threat." [ANSI/ESD S20.20 section 6.2.3.1. Protected Areas Requirement]



"Air ionization can neutralize the static charge on insulated and isolated objects by charging the molecules of the gases of the surrounding air. Whatever static charge is present on objects in the work environment will be neutralized by attracting opposite polarity charges from the air. Because it uses only the air that is already present in the work environment, air ionization may be employed even in clean rooms." [ESD Handbook TR20.20 Ionization, section 5.3.6.1]

NOTE: Offset voltage balance in volts and discharge times in seconds are representative only and are not a guarantee. They are actual measurements recorded in an ambient factory environment. For compliance verification, measurements should be made at the location where ESD sensitive items are to be neutralized. A larger area may require additional ionizers. Use the Selection Chart to identify the optimal ionizer for your application. Note: if a faster discharge time is desired, it will typically require using a greater number of ionizers. See Discharge Time coverage figure in user guides.

