

960 Mini Air Ionizer Installation, Operation and Maintenance



Figure 1. SCS [960](#) Mini Air Ionizer

Description

The SCS [960](#) Mini Air Ionizer is a self-contained ionizing air blower designed to neutralize static charges from non-conductive objects. The proprietary circuitry contained in the blower generates balanced levels of positive and negative ions, and maintains correct balance despite variations in line voltage, fan speed, and emitter point condition. Meets ANS/ESD S20.20 tested per ANSI/ESD STM3.1 and ESD TR53.

Packaging

- 1 - Mini Air Ionizer
- 1 - 3 ft. RJ-11 Cable

Note: Power adapter is not included.

Performance

The Mini Air Ionizer reduces a static charge of $\pm 1000V$ to $\pm 100V$ in less than 4 seconds (the discharge time) at a distance of 1 foot.

Power Requirements

The Mini Air Ionizer requires 24VAC power supplied through a RJ-11 power socket located on the back of the unit.

The power supply for the Mini Air Ionizer is sold separately. Two power supplies are available for the Mini Air Ionizer:

Item	Description
960X/980X	Power Adapter, 120VAC In, 24VAC Out, North America
980E-X	Power Adapter, 230VAC In, 24VAC Out, IEC Inlet

They supply power to the Mini Air Ionizer via a phone cable with an RJ-11 connector. It is possible to connect four (4) Mini Air Ionizers together in series and power them off of one power supply.

To reduce the risk of electric shock, the power supplies use a grounding plug that has a third (grounding) pin. This plug will only fit into a grounding-type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter the plug in any way. If an alternate power source is used, please make sure that it conforms to the power input requirements as listed in the Specifications section. For further questions concerning the power-input requirements, please feel free to contact SCS Technical Service.

Installation

The Mini Air Ionizer mounts easily in a variety of positions using the provided tilting bracket/stand. Place the unit on the work surface and point it at the area or object to be neutralized. Alternatively, the mounting bracket may be attached directly to or above the workstation, or on another supporting structure. Please note that placement of the SCS Mini Air Ionizer is important in controlling its effectiveness. Its distance from the target object will affect the ionizer's performance. As distance increases, the discharge time will increase.

Determine the location of an 24VAC power supply (with a power cable using an RJ-11 plug) and insert into the RJ-11 socket on the back of the Mini Air Ionizer. Since the Mini Air Ionizer does not have a power switch, supplying power to the unit automatically turns it on.

Operation

Supplying power to the Mini Air Ionizer through the power socket in the back of the unit will turn it on. A green monitor light is also illuminated on the front of the unit, which indicates that the ionizer is on, and that power is being applied to the ionizing electrodes.

Maintenance

Occasional cleaning of the case and of the ionizing electrodes are the only routine maintenance procedures required.

Cleaning the case: Wipe the case with a soft cloth moistened with water. If a stronger cleaning solution is required, mild soap with water may be used. The use of any other cleaning solutions is not recommended.

Cleaning the ionizing electrodes: MAKE SURE TO REMOVE ELECTRICAL POWER TO THE IONIZER. When the ionizing electrodes become dirty, the internal circuitry of the ionizer will be automatically adjusted to emit an equal amount of positive and negative ions. Particulates on the electrode may, however, inhibit ionization to a limited degree. The emitter points are located between the fan blades and the rear grille. A jet of clean, compressed air can be used to remove dirt on emitter points. If a more rigorous cleaning method is needed to remove particulate, clean the points with a cotton swab. Access to the points is available through the rear grill. Be careful not to damage the points during cleaning.

Specifications

SCS 960 Mini Air Ionizer

Input Voltage	24VAC
Power	5 watts
Power Input Connection	RJ-11 socket
Size	4.5" H x 3.3" W x 2.0" D (including bracket)
Weight	0.75 lbs.
Performance	
*Offset Balance @ 1ft.	± 20V
*On Center Decay @ 1ft.	< 4 seconds typically
Air Flow Velocity (@ 1 ft. in front of grill)	300 ft./min.
Certifications	UL, C-UL

*Testing was performed with a charged plate monitor in accordance with ionization standard ANSI/ESD STM 3.1.

SCS 960X/980X Power Adapter

Input AC	120V, 50/60 Hz, 270 mA
Output AC	24V, 1.0 A through RJ-11 socket
Dimensions	3.2" H x 2.6" W x 1.9" D
Weight	1 lbs.
Certifications	UL (Class 2)

NOTE: One transformer will supply power for up to four (4) 960 Mini Air Ionizers. The power adapter is not included with purchase of the SCS 960 Mini Air Ionizer.

Made in China

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the SCS Warranty -

<http://staticcontrol.descoindustries.com/warranty.aspx>