EXAIR® Corporation
MANUFACTURING INTELLIGENT COMPRESSED AIR® PRODUCTS SINCE 1983
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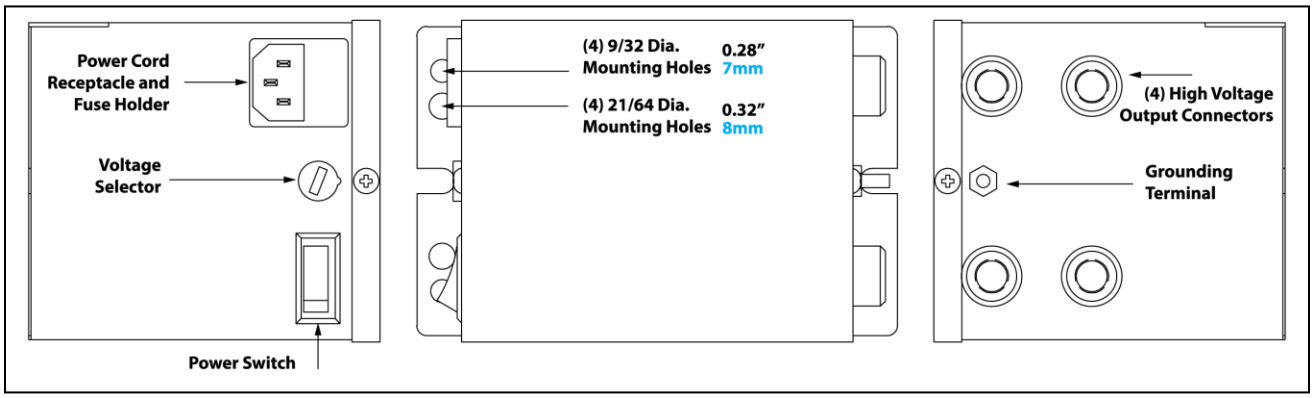
HIGH VOLTAGE GEN4 POWER SUPPLY INSTALLATION & MAINTENANCE

Model 7961 Gen4 Power Supply



SPECIFICATIONS

Model 7961:
Input Voltage: 115VAC / 230VAC
Input Current: .2 A / .1 A max.
Frequency: 50/60 Hz
Output Voltage: 5,000 V rms
Output Current: 5 mA max.
Max High Voltage Cable Length: 100ft (30.48 meters)

The Gen4 Power Supply Should Not Be Used In An Explosive Or Flammable Area.

ELECTRICAL SUPPLY

The Model 7961 Gen4 Power Supply requires a 115V, 50/60Hz or 230V, 50/60Hz power source. **The voltage selector switch must be in correct position before turning the power on to the unit.** If the correct voltage is not selected, the fuse will blow when the power is turned on.

The Model 7961 comes with (2) 6 foot long removable power cords that use an IEC C13 connection to plug into the back of the power supply. One of the cords uses a NEMA 5 plug that must be plugged into a grounded outlet. If the power supply is not grounded properly, the connected equipment will produce a shock and will not work properly. The other cord has a green or green with yellow trace ground wire, a bare shielding ground wire, a blue return wire and a brown live/hot wire. The shielding ground wire and green with yellow trace or green wire must be bonded together before installing a plug to insure proper shielding is in place. Failure to do this may cause interference with other electrical appliances. Additional grounding/bonding can be obtained by attaching a ground wire between a grounded metal surface in the application and the grounding terminal of the power supply.

MOUNTING

Mounting flanges are provided at the base of each power supply. The power supply can be bolted to the machine frame for uniform grounding. If grounding cannot be obtained through the machine, it is best to connect to earth ground through a grounding rod or copper cold water system.

HIGH VOLTAGE TERMINALS

The Model 7961 Gen4 Power Supply includes four high voltage outlets. With the power cord disconnected, connect the high voltage ionizer cables to the high voltage power supply terminals. Insert the stainless bayonet connector into the terminal cavity, then tighten the swivel hex fitting. Do not overtighten, but make sure the hex fitting is finger tight against the power supply terminal. A spring loaded connector grips the mating stainless steel terminal for a snug connection. When disconnecting an ionizer, it is important to first disconnect the power. Loosen the swivel hex fitting, and pull out from the power supply with minimal force.

With the high voltage connections made, connect the power cord of the power supply to an appropriate source. To operate the power supply, there is a lighted “on/off” switch on the back of the power supply. The “on” light indicates power to the primary of the power supply. **Do not apply power until grounding and high voltage connections are complete.**

TROUBLESHOOTING AND MAINTENANCE

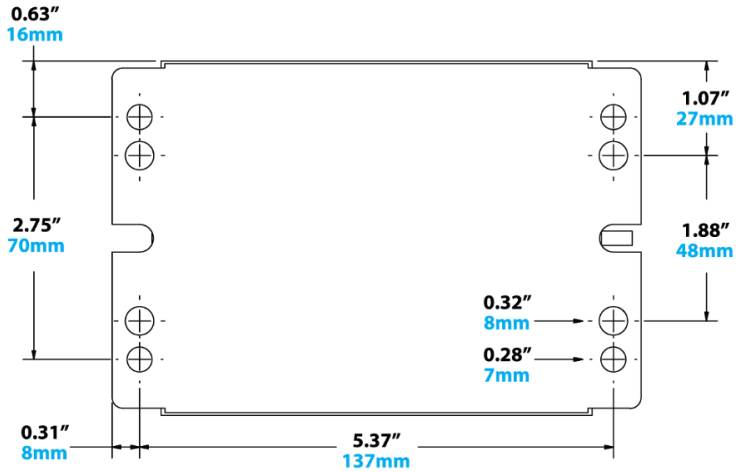
EXAIR Power Supplies have replaceable fuses and power switches. All other parts are completely potted inside the power supply box. There are no internal adjustments. No maintenance is required.

If the static eliminator is not functioning properly, turn the power supply off and check that the high voltage and ground connections are secure. Check the ionizer to insure that the emitter point(s) are not contaminated with dirt or shorted. If this does not fix the problem, turn the power off and check if the fuse is blown. The fuse is located above the power cord receptacle on the back of the power supply. Make note of the fuse rating on the power supply label. A spare fuse is also included in a tray near the power cord receptacle.

To check for ionization, use of a static meter (Model 7905) is required. Measure the static charge on the surface of some material. Pass the ionizer over the material. Measure the static charge on the material. If the charge is lower than the original measurement, the ionizer and power supply are working. If there is no change, contact the factory.

It is recommended that only qualified service personnel perform tests on this high voltage power supply or hazardous shock could result.

See right for the Mounting Diagram for the Model 7961 Gen4 Power Supply. (Not to scale)



If there are further questions regarding the operation of the power supply or static eliminator equipment or if you have any questions or problems, please contact:

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EXAIR Model 7961 Power Supply is UL Component Recognized to U.S. and Canadian safety standards and meets the requirements of applicable European Directive(s).