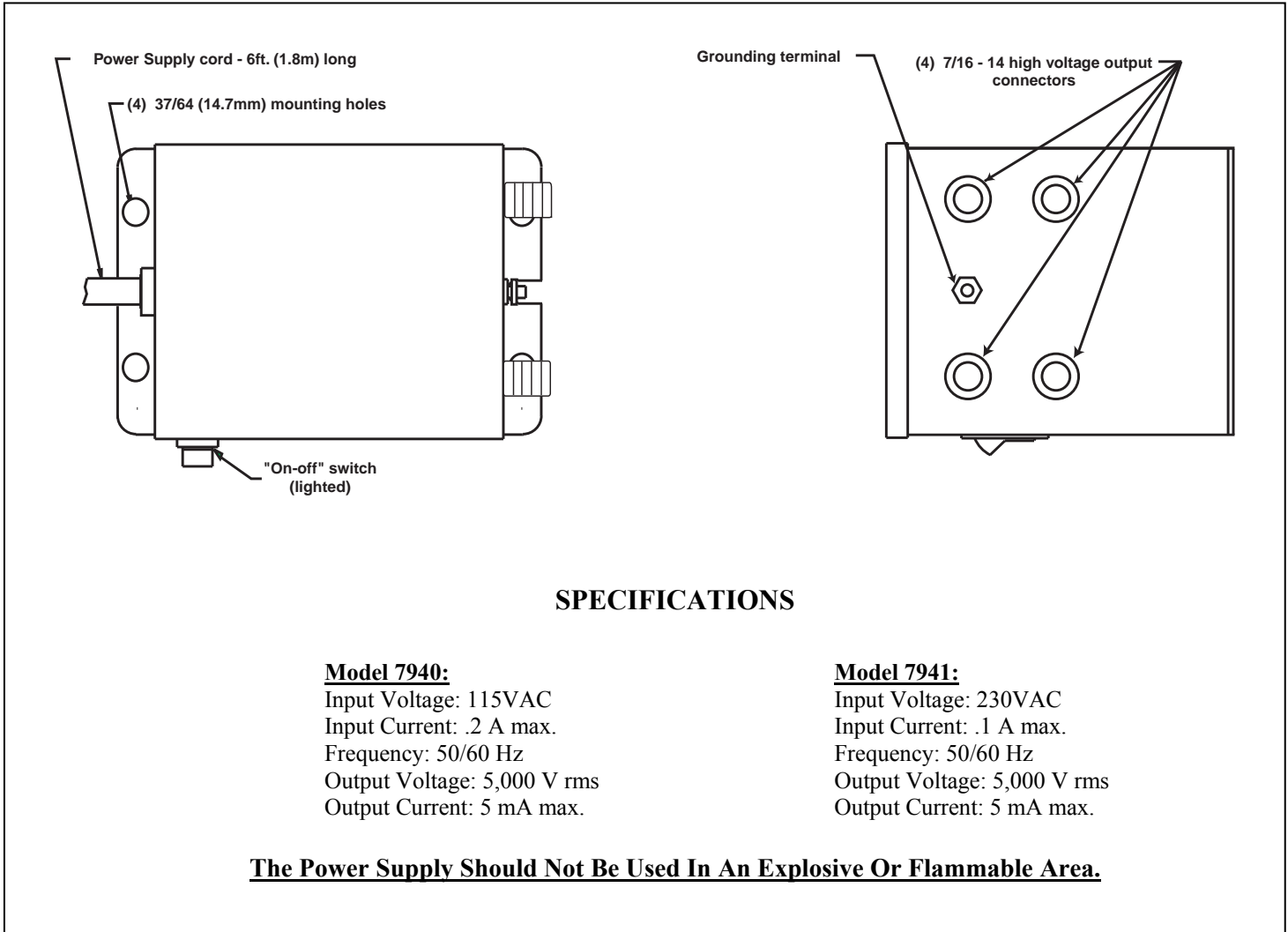


HIGH VOLTAGE POWER SUPPLY INSTALLATION & MAINTENANCE

Models 7940 and 7941



SPECIFICATIONS

Model 7940:

Input Voltage: 115VAC
Input Current: .2 A max.
Frequency: 50/60 Hz
Output Voltage: 5,000 V rms
Output Current: 5 mA max.

Model 7941:

Input Voltage: 230VAC
Input Current: .1 A max.
Frequency: 50/60 Hz
Output Voltage: 5,000 V rms
Output Current: 5 mA max.

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

ELECTRICAL SUPPLY

The Model 7940 Power Supply requires a 115V, 50/60Hz power source. Model 7941 requires a 230V, 50/60Hz. The Model 7940 must be plugged into a grounded receptacle. If the unit is not grounded, it will produce a shock and will not function properly.

The power cord of the Model 7941 Power Supply has a green ground wire that must be connected to a grounded source. Additional grounding can be obtained by attaching a ground wire between a grounded metal surface 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

Each power supply includes four high voltage outlets. A cap is provided to cover the unused outlets. With the power cord disconnected, it is first necessary to connect the ground lead of the ionizer (green wire) to the grounding terminal of the power supply. Remove the nut on the power supply and attach the ground lead of the ionizer. Replace the nut and be sure the grounding lead is snug to the power supply box.

To connect the ionizer to the high voltage power supply terminal, simply insert the stainless steel contact into the terminal cavity, then tighten the knurled knob. Do not overtighten. This 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 knurled knob, and pull the knob away from the power supply with minimal force. The stainless steel contact will snap loose from the connector spring.

With the grounding and 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 side 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 no user serviceable components. All parts are completely potted inside the power supply box. There are no internal adjustments. There is no maintenance 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 point(s) are not contaminated with dirt or shorted.

With all connections properly made and the power supply “on”, there is a slight vibration that can be felt on the cable of the static eliminator. 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.

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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Power supplies are UL Listed to U.S. and Canadian safety standards. There are no user serviceable parts inside.



Power Supplies meet the requirements of applicable European Directive(s).

