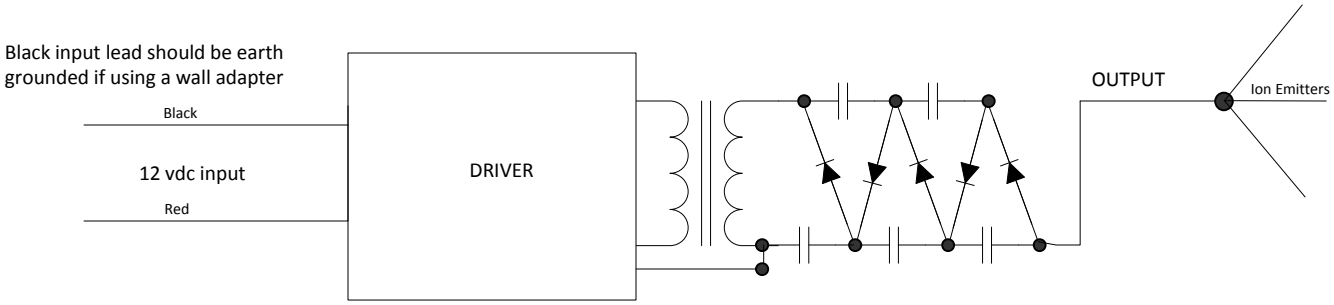
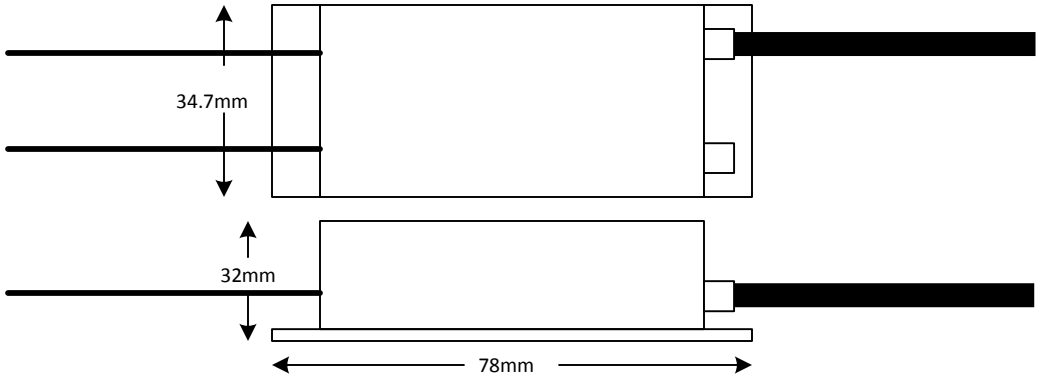
SS-010SD1-1 Negative Ion Driver

Used in our NEG30 Ionizer



Schematic



Function	Value	Tolerance	Other
Input Voltage	12 vdc		
Input Current (No load)			
Input Current (load)	400 ma		
Input Watt (No load)			
Input Watt (load)			
Output Volts	-20 kvdc		
Output Configuration	Single Output		
Internal Operating Frequency	35 khz		

Use a 12 vdc/.5 amp dc wall adapter or other suitable power supply.
Always check entire system for any excessive heating
Output short circuit to ground <200uA

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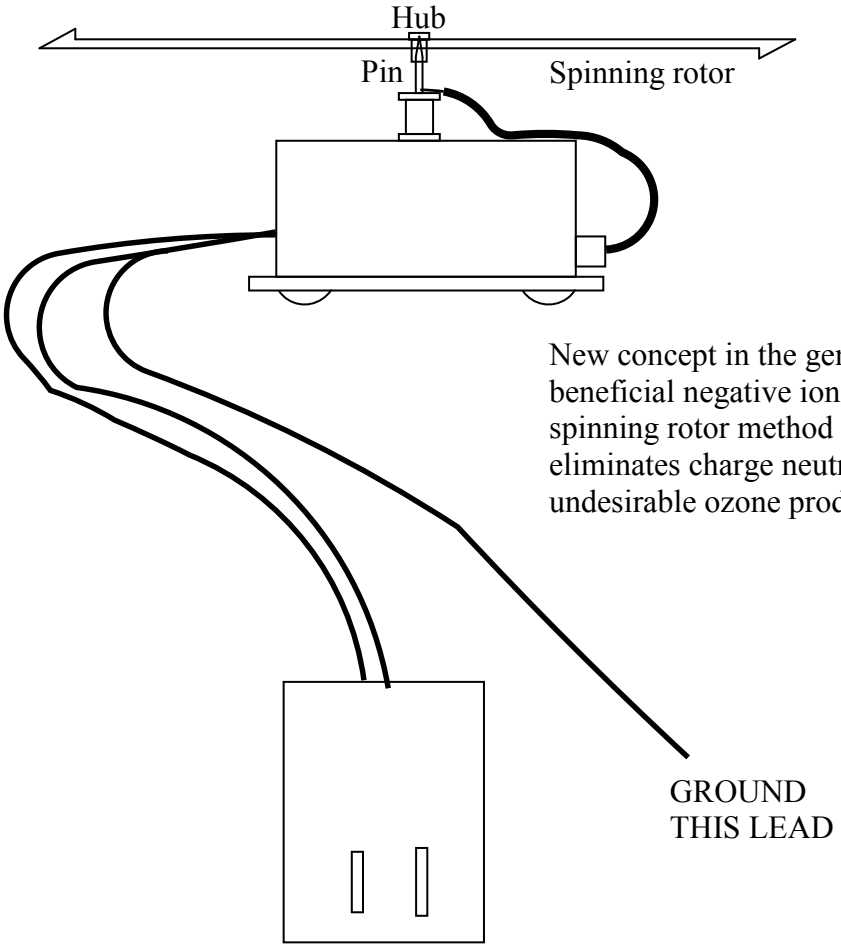
NEG30 Operating Instructions



1. Locate a flat surface such as a wooden or plastic table to place unit on.

2. Attach green ground lead to AC socket plate screw to ground. *Failure to do this will burn out the adapter!*

3. Place rotor on pin bearing. Note that factory rotors may require fine tune balancing by user to obtain smooth high speed rotation. Use your own ingenuity and common sense in performing this simple task if necessary.

4. Plug unit in and note rotor starting to spin. Ions are now being emitted into the air and can easily be detected by holding a fluorescent tube near the unit noting a flashing. This must be done in the dark.

5. Place a piece of paper near the base of the unit and note the force field generated by trying to lift the paper!

Note (sound): *it is normal to hear a squeaking noise from the rotor at first, which should go away after an hour or two of use. Thereafter the rotor will quiet down but still make a faint chatter as it spins.*

Note (hub): *eventually, after many hundreds of hours, the metal-to-metal contact of the pin may wear away the rotor hub. This is due to friction and is unavoidable, although periodic application of graphite on the pin tip (every few hours of use) may prolong its life. Replacement hubs are available at hardware stores for a few cents.*

Note (rotor): *the sharp ends of the rotor will eventually become smooth; this is also unavoidable and is due to the high voltage ion emission from these points. The ends must be kept sharp, or they will emit fewer ions and start emitting ozone. Check the ends after every few weeks of use, or if you smell faint ozone – they can be kept sharp with a fine metal file. Replacement rotors and hubs are also available on our website.*

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