

INSTALLATION INSTRUCTIONS

The filter can be installed by anyone with knowledge of shielded enclosures and moderate carpentry skills. However, if you are unsure about your ability to install the filter, seek the help of an experienced shielding installer. The filter is designed to be powered by a Listed power source rated for 12V DC and a minimum 2A marked "LPS" or "Class 2" only. Wiring the filter power source to a building power source should be performed by a competent electrician in compliance with local electrical codes.

- Step 1.** Determine a location for the filter, insuring an adequate building power source within 10' of the filter.
- Step 2.** Use a 1 3/8" hole saw to create a hole in the shielded wall (or filter panel).
- Step 3.** Deburr the hole as necessary and clean both sides of the shielded wall with a scouring pad. This will insure proper electrical contact between the filter and the shielded enclosure.
- Step 4.** Place the gasket that came with the filter on the threaded penetration up against the body of the filter, push the penetration through the hole and screw on the brass flange nut.
- Step 5.** Tighten the flange nut until the gasket is compressed and an adequate seal with the shielded wall has been created. This may require an additional person to hold the filter body tight or tighten the flange nut. Typically, the gasket will compress to about 1/8" thickness, but do not over tighten the flange nut.

WIRING THE FILTER TO A BUILDING POWER SOURCE SHOULD BE PERFORMED BY A COMPETENT ELECTRICIAN IN COMPLIANCE WITH LOCAL ELECTRICAL CODES.

- Step 6.** Connect the filter power cord to the DC+ and DC- of the filter power supply, keeping both connections inside the designated low voltage area of the supplied junction box.
- Step 7.** Turn the building power source OFF at the electrical breaker and insure there is no power on the building installation wiring. A readily accessible disconnect device must be incorporated in the building installation wiring. For supply connections, use wires suitable for at least 75°C.
- Step 8.** Connect the building installation wiring to the AC+, AC- and GND of the filter power supply, keeping both AC connections inside the designated high voltage area of the supplied junction box.
- Step 9.** Secure the junction box to a suitable structure and affix the lid with the supplied screws. Turn on the building power supply. The filter is now ready for use.