

2" PANEL AIR CLEANER

Product Code: P-224, P-224-C, P-224-2C

Specifications

- 1.1 General: The air cleaner shall be a two inch wide (nominal) electronically enhanced polarized media air cleaner.
- 1.2 Certifications: The air cleaner shall be tested and meet CSA Standard (:C22.2 No.: 187-M1986 and UL Standard ANSI/UL Std No 867 (4th Ed.) for electrostatic air cleaners.
- 1.3 Operation: The air cleaner shall have an active electric field that polarizes a dielectric media. It shall not ionize airborne particles or produce ozone.
- 1.4 Performance: The air cleaner shall be able to remove 97.8% of the airborne particulates 0.3 micron and greater in a recirculating system. Pressure drop across the air cleaner will be no more than 0.2" w.g. @ 300fpm.
- 1.5 Construction: The construction of the air cleaner frame and screens shall be aluminum. Two miniaturized electronic power supplies (power head) shall be mounted in a channel on the frame of the air cleaner in a non-conductive housing. A folding glass fiber media that create two pads shall be placed between the outside grounded frame/screens and the center collector cushion carbon. The center collector cushion carbon or mesh shall carry the high DC voltage from the power head. The air cleaner frames shall be hinged so as to allow easy access to the media pad for replacement. Further, each air cleaner shall be able to connect electrically to an adjacent air cleaner. If the air cleaner is to be attached to the frame of a rack or air cleaner grill, the air cleaner shall be equipped with a latch system that allows the frame to be opened and media changed without removing the air cleaner from the rack or grill.
- 1.6 Electronics: The power heads shall be capable of converting 24VAC to the 7.2 KVDC and draw no more than two watts of power. The power head shall be insulated from the air cleaner frame and it shall transmit the 7.2 KVDC to the center collector cushion activated carbon of the collector cushion pad through a special copper filament. Each air cleaner shall have a "Power On" lamp and be equipped with a high-voltage resistor to de-energize the air cleaner when the power is shut off.
- 1.7 Power Supply: The 24 VAC power supply must be a UL or CSA certified transformer, class "2" tupe, which shall permit one side of the secondary output (24V) to be attached to electrical ground.
- 1.8 Air Cleaner Media: Replaceable air cleaner collector cushion pad shall be individual, disposable glass fiber "collector cushion", which shall consist of a folded glass fiber pad that create two ply of fiber glass with a conductive center activated carbon or aluminum mesh. This conductive center carbon or Mesh shall b3 permanently enclosed between the folded media that makes two pieces of fiber glass and shall be disposed of when the media pad is changed. The glass fiber collector cushion pad must be fabricated from a constant filament so that any shed fibers are not enhanced. The glass fiber must have a minimum of a class "2" fire rating.
- 1.9 The air cleaner shall come with a media collector cushion pad in one of the following configurations:
 - A- One aluminum center in each pad (P-224);
 - B- One aluminum center with one activated carbon center (P-224-C);
 - C- Two activated carbon center (P224-2C).

A Breeze of Fresh Air