

V8 Series V-Bank Module Air Cleaner

Product Code: EBV8

Specifications

- 1.1 General: The V8 module filtration system shall be consist of eight 1-inch electronic air panels of electronically non-ionizing polarized media.
- 1.2 Certification: The air cleaner shall have been tested and meet CSA Standard C22.2 and No 187-M19986 and UL standard 867 for electronic air cleaners.

According to the Indoor Air Quality Procedures outlined in the ASHRAE Standard 62-2001, large buildings using the Electro Breeze air cleaner system may be able to cut their outside air requirements in half or even to a third.
- 1.3 Operation: The air cleaner shall have an active electrostatic field that polarizes a dielectric collector cushion pad. 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 re-circulating system. Pressure drop across the air cleaner will be no more than 0.2" w.g. @ 300fpm.
- 1.5 Construction: The V8 module cabinet shall be galvanized steel pre-fabricated module assembly. It shall be pre-fabricated to permit the assembly at the HVAC manufacturing plant. The air cleaner module shall consist of eight individual air cleaners. The construction of the air cleaner frame and screens shall be aluminum. A miniaturized electronic power supply (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. Each 1-inch panel can be removed by sliding out each one for yearly maintenance or future full inspection.
- 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 media 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. The power heads will be connected in parallel so that if one fails, it will have no effect on the other power heads in the row.
- 1.7 Power Supply: The 24VAC power supply must be a UL or CSA certified transformer, class "2" type, 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 be permanently enclosed between the folded pad that makes two pieces of fiberglass and shall be disposed of when the collector cushion pad is changed. The glass fiber 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 Each air cleaner shall have installed either a carbon or aluminum mesh core collector cushion pad.

A Breeze of Fresh Air