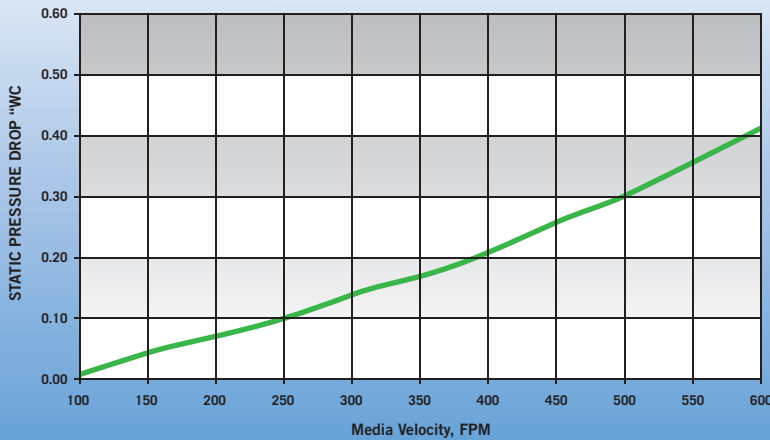


1" PANEL AIR CLEANERS



High Efficiency Filtration Solutions for Low Static Pressure Drop Applications

- Polarized-Media Electronic Air Cleaners bring powerful air cleaning to small equipment such as RTUs, FCUs, VAVs and unit ventilators
- Captures ultrafine particles, VOCs and odors
- Can help implement the IAQ procedure of ASHRAE Standard 62 to possibly reduce outdoor air
- Longer life than disposable or passively charged electrostatic filters
- Operates on less than 2VA of 24VAC
- Typically wired to unit control transformer
- Available in any size up to 20" x 40"
- Fits standard 1 inch filter racks
- Compatible with Sterile Sweep™ UVC Systems
- Limited 5 year warranty includes electronics
- Tested to meet CSA Standard C22.2 No. 187-M19986 and UL Standard 867

1" TANDEMS

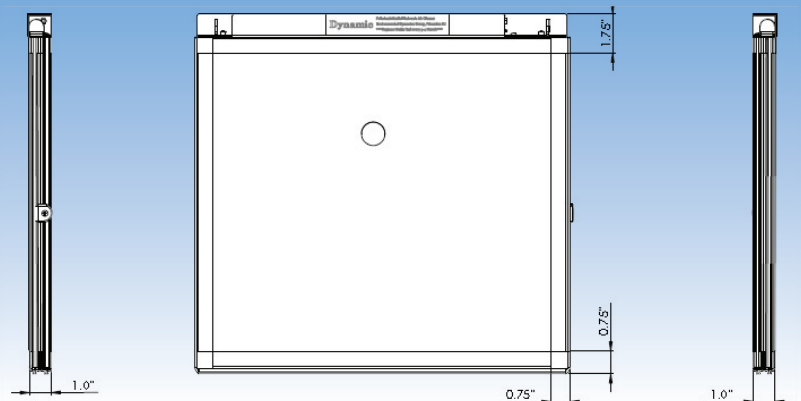
For ease of installation in units with multiple filters, "tandem" Panels are available. These connect together mechanically and electrically and allow one row of Air Cleaners to have a single electrical connection point. The frames of each panel in the row are hinged together, so that all may be removed together. Neoprene foam strips are used on the mating faces of the Air Cleaners to block the flow of air between panels.

PERFORMANCE DATA

P1000

Electrical Input:	24 VAC
Powerhead Output Voltage:	7 kV (DC)
Power Consumption:	1.4 Watts
Powerhead Volt/Amps Draw:	1.45 VA
Ozone Generation:	None
Initial Static Pressure* @ 300 fpm:	.13 w.g.

* Final pressure drop is a function of the equipment. Typical "dirty" static pressure is initial static pressure X2.



Note: Unit dimensions are 1/4" under nominal filter sizes.

APPLICATION EFFECTIVENESS COMPARISON		Dynamic Air Cleaners	Throw-away Pleated Filters
Particle Size	Airborne Contaminant(s)	Capture Efficiency	
3-10 microns	pollen, mold, dust mites, hairspray	99%	98%
1-3 microns	auto emissions, lead dust, large bacteria	98%	Limited Effectiveness
.3-1 micron	smoke from tobacco and cooking, small bacteria, fine dust, paint pigments	97%	Limited Effectiveness
<.3 micron	VOCs, odors, formaldehyde and off gases from carpets, furniture and cleaning products	40%	Limited Effectiveness

Specifications for P-1000 and P-1000T

- 1.0 **General:** The air cleaner shall be a one-inch (nominal) electronically enhanced polarized media air cleaner.
- 1.1 **Pre-filters (Optional):** The pre-filters shall be 25-30 % ASHRAE-rated pleated disposable filters. They shall be sized as noted on the drawings.
- 1.2 **Non-ionizing, polarized media electronic air cleaners:**
 - 1.2.1 **Certifications:** The air cleaner shall be tested and meet CSA Standard C22.2 No. 187-M19986 and UL Standard 867 for electrostatic air cleaners.
 - 1.2.2 **Operation:** The air cleaner shall have an active electrostatic field that polarizes a dielectric media. It shall not ionize airborne particles or produce ozone.
 - 1.2.3 **Performance:** The air cleaner shall be able to remove 97% of the airborne particulates 0.3µm and greater in a re-circulating system. Pressure drop across the air cleaner will be no more than 0.2" w.g. @ 300fpm. There shall be documented field data showing a greater than 50% reduction in ambient TVOC levels.
 - 1.2.4 **Construction:** The construction of the air cleaner frame and screens shall be aluminum and galvanized steel. The electronic power supply (power head) shall be mounted in a channel on the frame of the air cleaner. Glass fiber media pads shall be placed between the outside grounded frame/screens. The power head shall impart a high DC voltage to the center conductive mesh of the center screen. The air cleaner frames shall be hinged so as to allow easy access to the media pad for replacement. Tandems Only - Each air cleaner shall be able to be connected both mechanically and electrically to the adjacent air cleaner. The frames of each air cleaner in the row will be latched together, so that all may be removed together. Neoprene foam strips will be used on the mating faces of the air cleaners in a row to block the flow of air between air cleaners.
 - 1.2.5 **Electronics:** The power supply shall be capable of converting 24VAC to 7 kV (DC) and draw no more than two watts of power. The power supply shall be insulated from the air cleaner frame and it shall transmit the 7 kV (DC) to the center screen of the media pad through a titanium 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. Tandems Only - Each power supply shall have an input and an output so that the power supply of each air cleaner may plug into the next. The power supplies will be connected in parallel so that if one fails, it will have no effect on the other power supplies in the row.
 - 1.2.6 **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.
 - 1.2.7 **Filter Media:** Replaceable filter media shall be individual, disposable glass fiber "pillows", which shall consist of two ply of fiber glass with a conductive center screen of activated carbon mesh. This center screen shall be permanently enclosed between the two pieces of fiberglass and shall be disposed of when the media pad is changed. The glass fiber media must be fabricated from a constant filament so that any shed fibers are not respirable. The glass fiber must have a minimum of a class "2" fire rating.
- 2.0 **Reduced Outside Ventilation Air (Optional):** The system shall be designed to remove particulates and contaminants and meet ventilation rate requirements using the ASHRAE Standard 62.1 Indoor Air Quality Procedure.
- 2.1 **Alternates:** Any alternately specified system shall have demonstrated the ability to remove particulates and contaminants and meet ventilation rate requirements using the ASHRAE Standard 62.1 Indoor Air Quality Procedure in at least three similar installations.
 - 2.1.1 **Test Reports:** Alternately specified air cleaners shall be required to conduct air quality tests before and after the installation to demonstrate that indoor air quality is at least as good as it would have been had outside air been brought in at ventilation rates using the ASHRAE Standard 62.1 Ventilation Rate Procedure.
- 3.0 **Warranty:** The air cleaner shall carry a written Five (5) Year Limited Warranty on parts. The warranty shall provide that a replacement will be furnished at no charge for any part of the product which fails in normal use and service during the warranty period and shall commence on the date of installation.



Specifications subject to change without notice
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