

MODEL PD-900C

5 STAGE COMMERCIAL PORTABLE HEPA AIR PURIFIER WITH ULTRAVIOLET LIGHT & PHOTO CATALYTIC FILTER



Description

- The 5 Stage Commercial Portable HEPA Air Purifier offers the ultimate in air filtration and sterilization. This patent-pending combination uses HEPA, UVC Germicidal Light (non ozone producing) and Photo Catalytic Oxidation. It removes and destroys allergens, lung damaging atmospheric dust, biological and chemical contaminants and odours, such as toluene, benzene, cooking odours, tobacco & cannabis smoke, bacteria, viruses, mold and lots more.
- Ideal for light commercial applications where there are allergens, bacteria, viruses, new construction/renovation odours, tobacco & cannabis odours, animals, food & spice odours, garbage collection room odours, mold, water and sewer damage.

Standard Features

- Carbon Prefilter protects the HEPA filter while removing lint, hair and larger particles.
- Long-life, 99.97% HEPA Media Filter removes particles 0.3 micron (1/84,000 of an inch) and larger such as atmospheric and household dust, coal dust, insecticide dust, mites, pollen, mold spores, fungi, bacteria, viruses, pet dander, cooking smoke and grease, tobacco & cannabis smoke particles and more. The HEPA filter becomes more efficient as it becomes dirtier with time.
- **Two** UVC Germicidal Lights are enclosed in a Reflector which intensifies the UV rays.
- The Photo Catalytic Oxidation Filter (PCO) has a very high surface exchange capability and allows UV light into the mass of the material — means there is absorption throughout the whole Photo Catalytic Oxidation Filter (PCO) filter instead of just on the surface. The combination of the UVC light and the Photo Catalytic Oxidation Filter (PCO) decomposes organic materials into basic molecules such as H₂O and CO₂.
- Carbon/ Potassium Permanganate Final Filter for removal of Volatile Organic Compounds (VOC's) and light gases.
- Powerful energy efficient, variable speed European motor delivers up to 250 CFM of pure air.
- Plug-in Power Cord provides convenient electrical connection.

Cabinet Construction Features

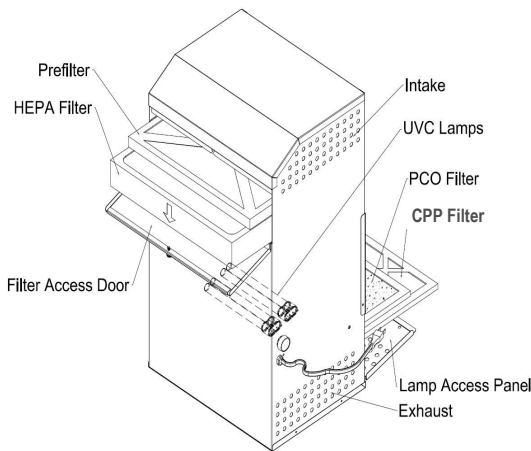
One piece wrap, steel cabinet has powder-coat paint finish to provide long life and durability.



SPECIFICATIONS



PROUDLY MADE IN CANADA



HOW IT WORKS

The air passes through a pleated Carbon Prefilter which removes lint and large particles to extend the life of the HEPA filter. Smaller particles then pass through a long-life, 99.97% HEPA (High Efficiency Particulate Air) Media Filter which captures particles 0.3 micron (1/84,000 of an inch) and larger.

The clean air passes through a reflection chamber where **Two** Ultraviolet Germicidal Lamps emit powerful UVC light rays which are designed to kill or inhibit bacteria, viruses, mold, fungus and microbial growth. These are non-ozone producing lamps. The Ultraviolet Lights are also used to activate the unique Photo Catalytic Oxidation Filter (PCO) Media located below the UVC lamps.

The Photo Catalytic Oxidation (PCO) Filter is a quartz media coated with nanoparticles of Titanium Dioxide (TiO₂). The combined action of the UVC light and the TiO₂ decomposes organic materials into basic molecules such as H₂O and CO₂ and reduces odors and VOC's as a result.

A Carbon/ Potassium Permanganate Final Filter further reduces VOC's and light gases.

Clean air is discharged.

MODEL	PD-900C	
Air Flow: Variable Speed Motor Control	Up to 250 cfm	Up to 425 m ³ /hr
Carbon Prefilter: DM900-0855 Removes lint and large particles	Replace every 3-6 months	
Long-Life, 99.97% HEPA Media: DMH4-0400 Removes pollutants 0.3 micron	40 ft ² Replace every 2-4 years	3.7 m ² Replace every 2-4 years
Germicidal UVC Light: DM900-0191 Strongest light intensity kills bacteria, viruses, mold, fungi, allergens	2 Bulbs Replace every 13,000 hours or 2-3 years	35 watts each
Photo Catalytic Oxidation (PCO) Substrate Filter: DM900-0450 Removes Volatile Organic Compounds (VOC's)	Replace every 13,000 hours or 2-3 years	
Carbon/ Potassium Permanganate Final Filter: DM900-0810 Removes VOC's and light gases	Replace every 1 year	
Cabinet Dimensions: H x W x D	29.5 x 16.25 x 12.75 in	74.9 x 41.3 x 32.4 cm
Input Voltage	120 v 60 hz 1.7 Amp	
Power Consumption	200 watts	
Power Cord	10.0 ft	3.05 m
Unit Weight	47 lbs	21.3 kg

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