

MODEL PD-900DW

5 STAGE DUCT OR WALL MOUNT HEPA AIR PURIFIER WITH ULTRAVIOLET LIGHT & PHOTO CATALYTIC FILTER



Description

- The 5 Stage Duct or Wall Mount 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 and odours, bacteria, viruses, mold, fungi and lots more.
- Ideal for residential and commercial applications where there are allergy/ respiratory sufferers, new construction odours, smokers, pets, mold, water & sewer damage, garbage disposal rooms, cannabis manufacturing processes and more.

Standard Features

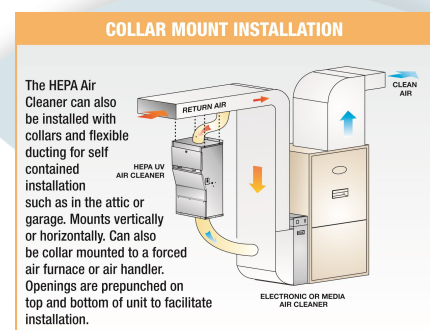
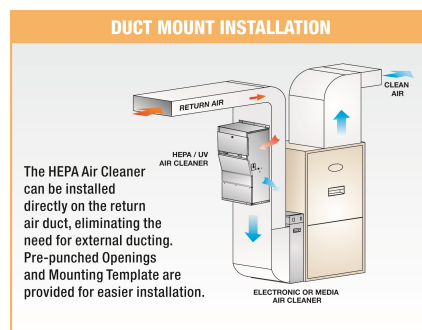
- Carbon Prefilter protects the HEPA filter while removing lint, hair and larger particles.
- Long-life, 99.97% HEPA Media Filter removes particles 0.3 micron (1/84,000 of an inch) and larger such as atmospheric and household dust, coal dust, insecticide dust, mites, pollen, mold spores, fungi, bacteria, viruses, pet dander, cooking smoke and grease, tobacco and 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 UVC rays.
- The Photo Catalytic Oxidation (PCO) Filter 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 (PCO) Filter instead of just on the surface. The combination of the UVC light and the Photo Catalytic Oxidation (PCO) Filter 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 European, energy efficient motor delivers up to 250 CFM of pure air, without adding static pressure to the HVAC system.
- Plug-in Power Cord provides convenient electrical connection.
- Versatile installation can be duct mounted, collar mounted or used as a stand alone unit.
- Unit for wall mount application can be ordered with grilles built-in.

Cabinet Construction Features

- One piece wrap, steel cabinet has powder-coat paint finish to provide rigid installation and durability.
- Pre-punched openings at back of unit and mounting template are provided for easier duct mount installation; no external ducting required.
- Pre-punched openings at top and bottom of unit facilitate collar mount installation.

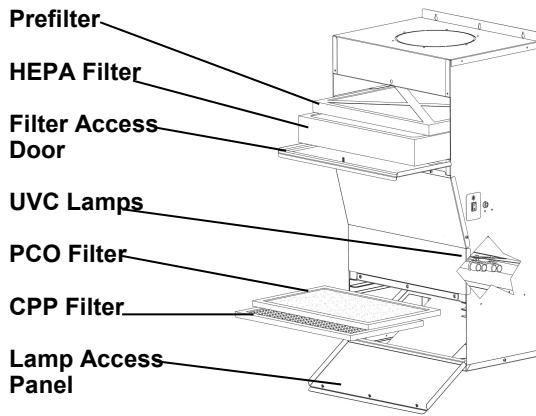


Wall mount application with grilles built in





PROUDLY MADE IN CANADA



HOW IT WORKS

Duct Mounted/ Collar Mounted:

Millions of airborne pollutants are carried through the return air ducts of the heating/cooling system. The Air Cleaner has been designed to be installed on the return air duct. A portion of this return air is by-passed through an opening on the rear of the unit and passes through a 5-stage filtration system. 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 (PCO) Filter 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 UV 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 back into the return air duct.

Wall Mounted:

This unit can be easily installed on any wall surface in any room. Mounting holes are located at the back of unit. For this type of installation, grille sets are available to cover both openings (intake and exhaust) at top and bottom of unit, or can be special ordered with grilles built in.

| MODEL | PD-900DW | |
|---|--|---|
| Air Flow: Variable Speed | 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 |
| Intake Duct Fitting | 14.5 x 3.75 in or 8 in (dia) | 36.8 x 9.5 cm or 20.3 cm (dia) |
| Outflow Duct Fitting | 14.5 x 4.37 in or 8 in (dia) | 36.8 x 11.1 cm or 20.3 cm (dia) |
| 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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