

## WHOLE-HOUSE DUCT MOUNT HEPA AIR CLEANER WITH ULTRAVIOLET LIGHT & PHOTO CATALYTIC FILTER

### Description

- The CinQuartz® 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 odors, such as formaldehyde, toluene, benzene, cooking odors, tobacco smoke, bacteria, viruses, mold and lots more.
- Ideal for residential and light commercial applications where there are allergy, asthma or respiratory sufferers, new construction odors, smokers, pets, cooking odors, 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 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.
- Unique CinQuartz® 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 CinQuartz filter instead of just on the surface. The combination of the UVC light and the CinQuartz® decomposes organic materials into basic molecules such as H<sub>2</sub>O and CO<sub>2</sub>.
- 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 or collar mounted. Stands available with or without wheels for stand-alone applications.

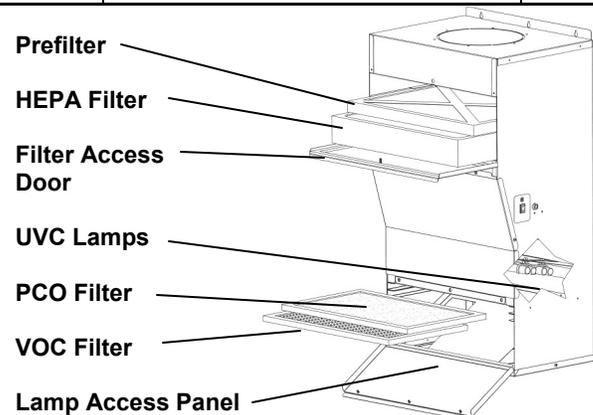


### Cabinet Construction Features

- 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.

### Replacement Filters & Lamps

PART NUMBER	DESCRIPTION	REPLACE EVERY
DMH4-0400	HEPA Media Filter	2-4 years
DM900-0855	Prefilter, Carbon	3-6 months
DM900-0191	UVC Lamp	2-3 years
DM900-0450	Photo Catalytic Oxidation (PCO) Filter	2-3 years
DM900-0810	Final Filter, Carbon/ Potassium Permanganate	1 Year
DM900-1002	UVC Lamp & PCO Maintenance Kit: Contains 2 UVC Lamps and 1 PCO Filter, gloves	See above
DM900-1003	Complete 2-3 Year Maintenance Kit: Contains 1HEPA Filter, 4 Carbon Prefilters, 2 UVC Lamps, 1 Photo Catalytic Oxidation (PCO) Filter, 2 Carbon/ Potassium Permanganate Final Filters, gloves	2-3 Years



## SPECIFICATIONS

MODEL	CQDM900UV-VO-VS	
<b>Air Flow: Variable Speed</b>	Up to 250 cfm	Up to 425 m <sup>3</sup> /hr
<b>Carbon Prefilter: DM900-0855</b> Removes lint and large particles	Replace every 3-6 months	
<b>Long-Life, 99.97% HEPA Media: DMH4-0400</b> Removes pollutants 0.3 micron	40 ft <sup>2</sup> Replace every 2-4 years	3.7 m <sup>2</sup> Replace every 2-4 years
<b>Germicidal UVC Light: DM900-0191</b> Strongest light intensity kills bacteria, viruses, mold, fungi, allergens	2 Bulbs Replace every 13,000 hours or 2-3 years	
<b>CinQuartz<sup>®</sup> Substrate PCO Filter: DM900-0450</b> Removes Volatile Organic Compounds (VOC's)	Replace every 13,000 hours or 2-3 years	
<b>Carbon/ Potassium Permanganate Final Filter: DM900-0810</b> Removes VOC's and light gases	Replace every 1 year	
<b>Complete 2-3 Year Maintenance Kit: DM900-1003</b> Contains 1 HEPA Filter, 4 Carbon Prefilters, 2 UVC Lamps, 1 Photo Catalytic Oxidation (PCO) Filter, 2 Carbon/ Potassium Permanganate Final Filters, gloves	Replace every 2-3 years	
<b>Cabinet Dimensions: H x W x D</b>	29.5 x 16.25 x 12.75 in	74.9 x 41.3 x 32.4 cm
<b>Intake Duct Fitting</b>	14.5 x 3.75 in or 8 in (dia)	36.8 x 9.5 cm or 20.3 cm (dia)
<b>Outflow Duct Fitting</b>	14.5 x 4.37 in or 8 in (dia)	36.8 x 11.1 cm or 20.3 cm (dia)
<b>Input Voltage</b>	120 V 60 hz	
<b>Power Consumption</b>	200 watts	
<b>Power Cord</b>	10.0 ft	3.05 m
<b>Unit Weight</b>	47 lbs	21.3 kg

## HOW IT WORKS

Millions of airborne pollutants are carried through the return air ducts of the heating/cooling system. The Air Purifier 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 back 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.

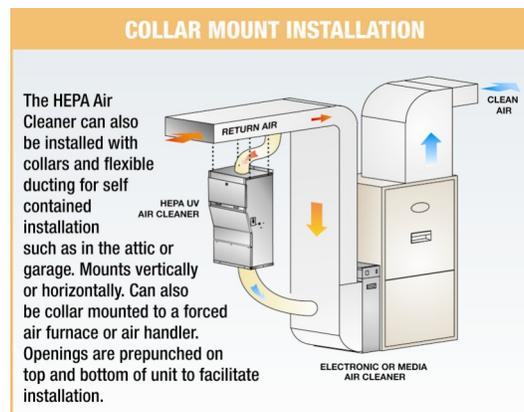
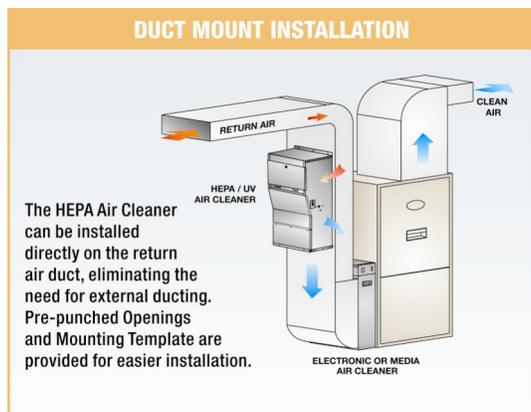
Smaller particles then pass through a long-life, 99.97% HEPA (High Efficiency Particulate Air) Media Filter which captures particles 0.3 micron (1/84,000 of an inch) and larger.

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 CinQuartz Media located below the UVC lamps.

The Photo Catalytic Oxidation (PCO) Filter is a Quartz media coated with nanoparticles of Titanium Dioxide (TiO<sub>2</sub>). The combined action of the UVC light and the TiO<sub>2</sub> decomposes organic materials into basic molecules such as H<sub>2</sub>O and CO<sub>2</sub> 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.



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