furnaceking
home services
905-564-5464
"Cleaning the air you breathe"

MODELS
FKDM900UV-VO-VS

DUCT OR WALL MOUNT 5-IN-1 HEPA AIR CLEANER WITH ULTRAVIOLET LIGHT & PHOTO CATALYTIC FILTER



Description

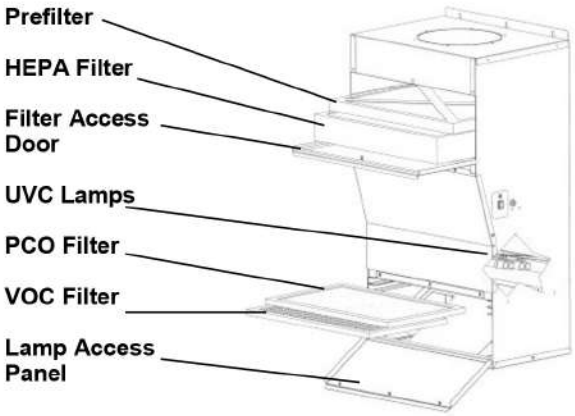
- The 5-in-1 Clean Air Machine Furnace King offers the ultimate in air filtration and sterilization. This patent-pending combination uses HEPA, UVC Germicidal Light (non ozone producing) and Photo Catalytic Oxidation. It removes and destroys allergens, lung damaging atmospheric dust, biological and chemical contaminants and odors, such as toluene, benzene, cooking odors, tobacco & cannabis smoke and odors, bacteria, viruses, mold and lots more.
- Ideal for residential and commercial applications where there are allergy/ respiratory sufferers, new construction odors, 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 UV 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_2O and CO_2.
- 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

- One piece wrap, steel cabinet has powder-coat 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.





SPECIFICATIONS

MODEL	FKDM900UV-VO-VS	
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	
CinQuartz® Substrate PCO 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	
Complete 2-3 Year Maintenance Kit: DM900-1003 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	
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	
Power Consumption	200 watts	
Power Cord	10.0 ft	3.05 m
Unit Weight	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 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.

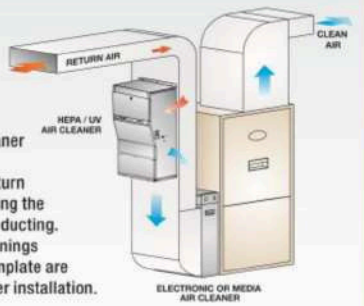
The clean air passes through a reflection chamber where two Ultraviolet Germicidal Lamps emit powerful UVC light rays which are designed to kill or inhibit bacteria, viruses, mold, fungus and microbial growth. These are non-ozone producing lamps. The Ultraviolet Lights are also used to activate the unique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

The Photo Catalytic Oxidation (PCO) Filter is a Quartz media coated with nanoparticles of Titanium Dioxide (TiO_2). The combined action of the UV light and the TiO_2 decomposes organic materials into basic molecules such as H_2O and CO_2 and reduces odors and VOC's as a result.

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

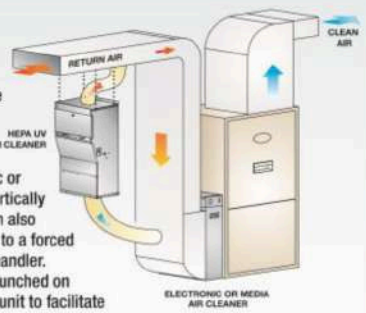
Clean air is discharged back into the return air duct.

DUCT MOUNT INSTALLATION



The HEPA Air Cleaner can be installed directly on the return air duct, eliminating the need for external ducting. Pre-punched Openings and Mounting Template are provided for easier installation.

COLLAR MOUNT INSTALLATION



The HEPA Air Cleaner can also be installed with collars and flexible ducting for self contained installation such as in the attic or garage. Mounts vertically or horizontally. Can also be collar mounted to a forced air furnace or air handler. Openings are prepunched on top and bottom of unit to facilitate installation.

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