



March 11, 2020

Specifications for HEPA 24x24x8 p/n F0047

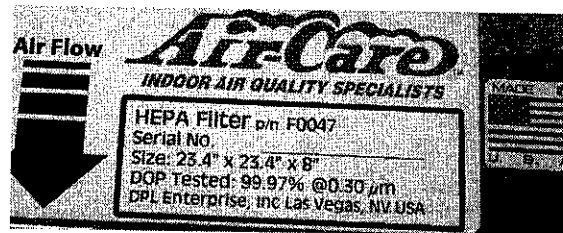
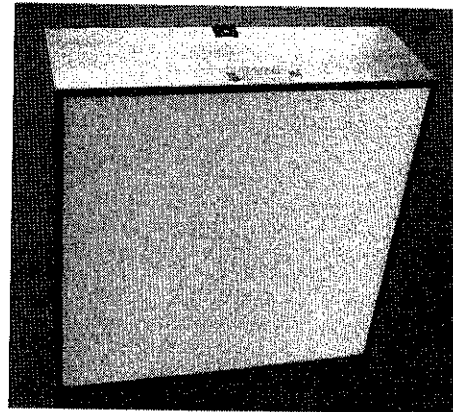
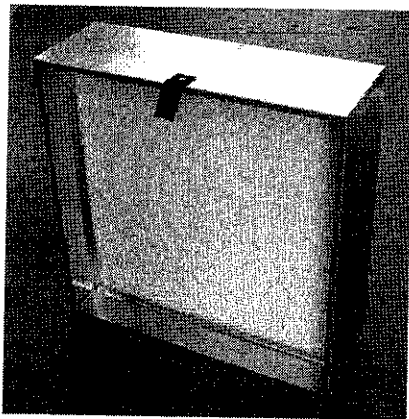
The 24x24x8"(Nominal) HEPA Filter uses a "Mini-Pleat" pack with Certified 99.97% @ 0.3 micron media that allows more surface area of HEPA Media in a smaller physical area that the previous Separator style of HEPA filters and is more stable in an environment that has vibrations that might result in the separators rubbing and ultimately piercing the HEPA media.

The HEPA media is Certified at 99.97% efficiency at 0.3 Microns.

The Filter Frame is 26 Ga, Galvanized Steel,

Sealing via Hot Melt Potting and Adhesive Compound.

	Length	Width	Thickness	Pleats
Frame	23.4"	23.4"	8.0"	NA
Media	23.3	23.3	4.0"	94



The Material is a micro-Fiberglass material that is rated at 99.97% filtration of particles down to 0.3 Microns diameter. The typical air flow through one filter has a velocity of 400 FPM to 500 FPM, which would be 1600 to 2000 CFM.

Depending on your Required Air Changes Per Hour, (a BASIC ASHRAE recommendation per HOUR is 2 Air Changes) that would be a volume of 60 Minutes x 2000 CFM = 120,000 Cubic Feet per hour, so 60,000 Cubic feet per hour for 2 air changes. In a room with an 8ft ceiling, $60,000 / 8 = 7,500$ square feet or a room 75 ft x 100 ft.

NEW CRITERIA

The vast majority of air filters have historically been tested as UL900, Class 2. The criterion for this filter classification is that when tested, the clean air filter burns moderately when attacked by flame, or emits moderate amounts of smoke, or both. A UL Class 1 filter, when clean, did not contribute fuel when attacked by flame and emitted only negligible amounts of smoke.

Now, Underwriters Laboratories (UL) has simplified its Standard UL 900 for evaluating a filter's combustibility and smoke generating potential when the filter is exposed to direct flame. The designations UL Class 2 and UL Class 1 designations are now outdated. UL 900 covers both washable and throwaway filters used for the removal of dust and other airborne particles from mechanically circulated air in equipment and systems.

The Material in our HEPA pleated filter pack is Fiberglass and resists catching fire and only emits minimal smoke at higher temperatures.

DPL Enterprises Inc., dba Air-Care
3868 E Post Road
Las Vegas, NV 89120

5/26/2023