

# Effect of Hepa filter in household vacuum cleaner

Have you ever wondered about the HEPA filter used in vacuum cleaners? How do they work? How to clean them? Please refer to the following article of Quantum for answers.

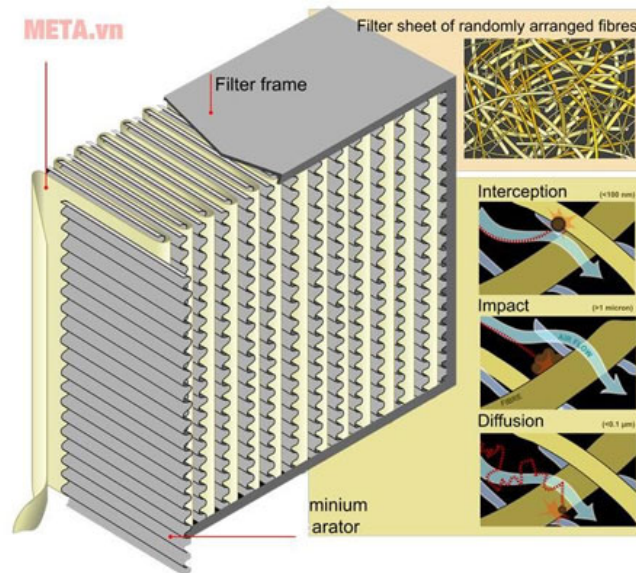
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## I. What is HEPA filter?

HEPA is a technology born in the 1940s, this technology created to filter radioactive particles polluting.

Basically, the HEPA filter consists of a grid randomly arranged from glass fibers with diameters from 0.5 to 2.0 micrometers. Therefore, the filter can absorb a large number of very small particles, capable of causing asthma and respiratory allergies for humans that other vacuum cleaners cannot absorb.



Vacuum cleaners using HEPA filters can remove most pollen grains, fungal spores, smoke, fur, bacteria and allergens, asthma and respiratory diseases. Meanwhile, conventional vacuum cleaners will discharge them back into the air.

## Classify HEPA filters

Hepa filter consists of 3 types that are HEPA, EPA, ULPA. Indicators on each filter are shown as follows:

### Indicators on EPA filters

EPA stands for Efficient Particulate Air Filter with 3 indicators capable of dust filtering about 99.5%.

1. E10 filters 85% of dirt
2. E11 filter 95% dirt
3. E12 filters 99.5% of dirt

### Indicator numbers on HEPA filters

HEPA stands for High Efficiency Particulate Air with 2 indicators that can filter up to 99.995%.

1. H13 filters 99.95% of dirt
2. H14 filters 99.995% of dirt

### Indicators on ULPA filters

ULPA stands for Ultra Low Penetration Air Filter, otherwise known as Ultra - Hepa with the ability to filter up to 99.99995% including pollen, dust, dust . 0.3 micrometers or less. . ULPA filters have filter indicators:

1. U15: Filter 99.9995% of dirt
2. U16: Filter 99.99995% of dirt
3. U17: Filter 99.999995% dirt

## II. Why should a vacuum cleaner with a HEPA filter be used?

Vacuum cleaners equipped with HEPA filters are very beneficial for people with asthma or allergies, as well as for adults and children. It has the ability to retain fine particles, triggers for allergies and asthma, minimizing diseases caused by other bacteria.

The higher the HEPA filter has, the more effective the vacuum cleaner is.

The HEPA 10 filter can filter 85% of airborne particles, while the HEPA 12 filter removes 99.5% and the HEPA 13 filter gets 99.9% of the diameter of 0.05 - 0.15 microns in the air.

A vacuum cleaner equipped with a 12 or 13 HEPA filter will be a worthy investment to ensure you and your family's health.



## III. Instructions for cleaning the HEPA filter properly

If used for a long time, the HEPA filter can still get dust and bacteria. This will limit the ability to filter dirt, which consumes more power. Therefore you need to clean them regularly to limit this situation. The hygiene steps are as follows:

1. Step 1: Use a small brush to brush the dust box as well as HEPA filters.
2. Step 2: Pour the dust in the filter B and take the filter to wash.
3. Step 3: Keep the parts dry and reinstall them.

## IV. Top 3 household vacuum cleaners using the most affordable HEPA filter today

1. Vacuum cleaner Fakir Veyron Turbo - Reference price: VND 4,100,000

The Fakir Veyron Turbo vacuum cleaner belongs to the pocketless series, possessing superior strength compared to the existing family vacuum cleaners with the capacity of up to 2,400W and the most modern filtration system HEPA H13 guaranteed. Up to 99.99% of indoor dust and bacteria.



#### **Features of Fakir Veyron Turbo:**

1. The engine is designed with high efficiency to ensure optimal suction at the lowest power consumption.
2. Large capacity dust container up to 1.5 liters.
3. Works with a powerful capacity.
4. Using high-tech filter HEPA.H13

2. Electrolux vacuum cleaner ZLUX1811 - Reference price: VND 1,555,000

Machine operating with a capacity of 1.800W will help you clean the house more quickly. With 80dB noise level when operating, Electrolux ZLUX1811 vacuum cleaner will not affect the quiet for the resting space of the members. .



Electrolux ZLUX1811 uses HEPA 12 filter technology with the function of advanced Cyclonic cyclone technology, which supports vacuum cleaner which can clean up to 99% of pathogenic bacteria, dust, pollen. In addition, Cyclonic cyclone technology also has the function of handling and compressing dust more effectively, limiting cleaning for dust trays.

3. Electrolux vacuum cleaner ZAP9910 - Reference price: 1,890,000 VND

Electrolux ZAP9910 possesses a beautiful, compact and modern design with elegant dark blue tones suitable for many different spaces. The machine has many types of suction heads with the function of floor suction, ceiling suction, narrow gap extraction, suitable for cleaning furniture items such as sofas, carpets . very convenient.



With HEPA filter technology, Electrolux ZAP9910 is capable of cleaning up to 99.97% of all types of dirt to ensure safe hygiene for your home. Electrolux ZAP9910 using cyclone cyclone suction technology has the ability to suck up the dust and dirt without having to stop the nozzle by centrifugal force. Hepa filters purify dirt and bacteria that bring a pleasant fresh air.

# Epilogue

When you understand the benefits that the HEPA filter offers, you will have the desire to own these vacuum cleaners with this filter. If you want to use please contact the hotline below for the fastest advice and support: In Hanoi: 024.35.68.69.69 or in HCMC: 028.38.33.33.66.

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