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ZIBO CHUQI NEW MATERIAL TECHNOLOGY CO., LTD.



## HEPA Strainers



### FEATURES

- For 0.1-micron and 0.3-micron particles, HEPA filters are characterized by their efficiency of 99.998%, meaning air can pass through, but fine particles cannot. The removal efficiency for particles with a diameter of 0.3 microns or larger can exceed 99.97%, making HEPA filters highly effective at capturing dust, bacteria, and other pollutants (particles from smoking typically have a diameter of 0.5 microns). HEPA filters also have ultra-low wind resistance, with a pressure drop as low as 15 Pa. Although the filtration capacity of HEPA filters is much higher than that of electrostatic filters, they have some limitations in terms of safety.

### MATERIAL CLASSIFICATION

- HEPA filters are made from five main types of materials: PP filter paper, glass fiber, composite PP/PET filter paper, meltblown materials, and polyester non-woven fabric. Our company mainly produces and uses the following HEPA raw materials: composite PP/PET filter paper and meltblown materials.

### TECHNICAL INDICATORS

Chinese Standards	European Standards	Source	Windage	Service Life
Sub-high Efficiency Filter	H10	Made in China	10-15pa	3-6 months
Sub-high Efficiency Filter	H11	Made in China	16-20pa	3-6 months
		Import	12-15pa	6-9 months
High Efficiency Filter	H12	Made in China	25-30pa	3-6 months
		Import	20-25pa	6-9 months
High Efficiency Filter	H13	Made in China	30-36pa	3-6 months
		Import	25-30pa	6-9 months

## Activated Carbon Filter

### FEATURES

- The activated carbon filter uses aluminum honeycomb, plastic honeycomb, and paper honeycomb with a through-hole structure as the carrier. Compared to traditional activated carbon filters, it offers better gas dynamics performance, lower bulk density, a larger specific surface area, higher adsorption efficiency, and a lower wind resistance coefficient. It can be used for air purification to remove volatile organic compounds (VOCs), formaldehyde, toluene, hydrogen sulfide, chlorobenzene, and other airborne pollutants. With low air resistance and low energy consumption, it can deodorize, remove odors, and purify the environment for a certain air volume.



**Corrected Version:** Common types include coal-based activated carbon, coconut shell activated carbon, and activated carbon foam. Our company mainly uses coconut shell columnar activated carbon for production.



Comparison of coal column activated carbon and coconut shell column activated carbon

Designation	CTC Value	Ash Content	Specific Gravity	Mesh Size
Coconut Shell Columnar Carbon	120%	3%	0.35	φ1mm- φ4mm
Coal-Based Columnar Carbon	50%	15%	0.5	φ1mm- φ4mm