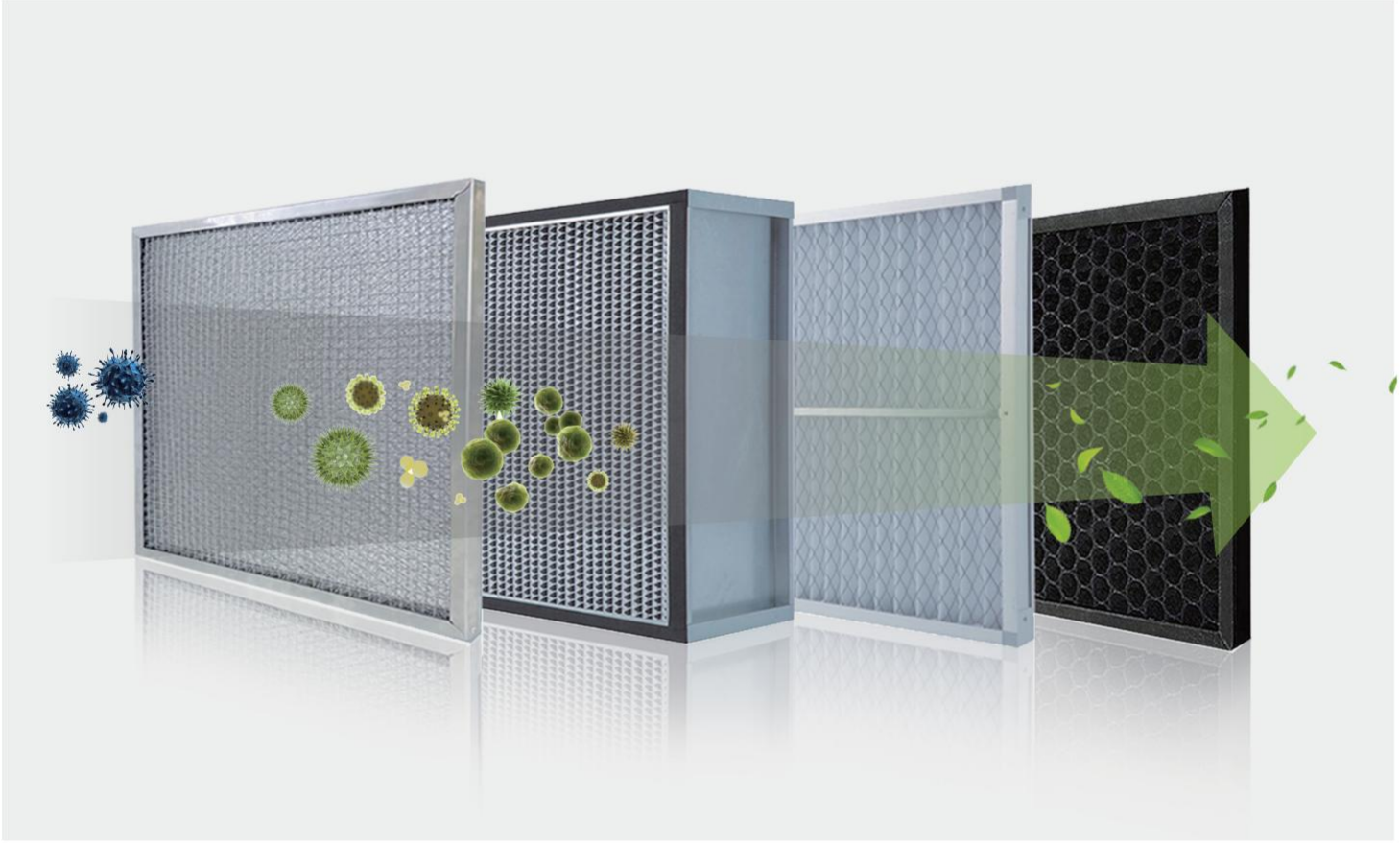
VHICH
DUST COLLECTOR

# FILTER MATERIAL SERIES

## Plate Filter Element



## Excellent Performance

Shengchuan filters allow dust collectors to operate under better performance, and have a wide range of applications in dust, fumes and oil mist. Different working conditions, according to the material characteristics and material manufacturing process, select the corresponding filter material, while taking into account the best filtration accuracy, the minimum operating differential pressure resistance, the traditional process, the air flow and filtration accuracy, filtration pressure drop is inversely proportional to the high permeability at the expense of the efficiency of the filtration efficiency, often means that the use of the life of a short, the Holy Spirit company is committed to improving the relationship between the filter cartridge to improve filtration efficiency and precision, while ensuring that the service life of the filter cartridge is not affected. The company is committed to improving this relationship, not only to improve the filtration efficiency and precision of the cartridge, but also to ensure that the service life of the cartridge will not be affected, and at the same time, the application of new technology, so that the service life of the cartridge and the filtration precision to reach a very high stage.

- Higher performance
- Higher dust removal efficiency
- Longer service life
- Higher value

## PRIMARY FILTER

The primary effect plate filter is mainly used for primary filtration of dust particles above 5 microns. Primary effect plate filters are generally used in clean return air systems or air ventilation, pre-filtration of local high-efficiency filtration devices, ventilation and air-conditioning systems of large civil buildings such as office buildings, conference rooms, hospitals, shopping malls, airports, etc. Pre-filtration of central air conditioning and centralized ventilation systems in industrial plants or clean rooms. The outer frame of the primary-effect plate filter is strong and removable. It adopts a strong plate-type aluminum alloy frame and is equipped with aluminum alloy corners or plastic corners. The structure is strong and stable, ensuring that the filter will not be deformed or damaged in poor working environments. The outer frame The detachable design makes it easy to replace the filter material to achieve the purpose of frame reuse.

### Common specifications:

| Model | Dimensions | Face Velocity | Rated Air Flow | Initial Pressure Drop |
|---|---|---|---|---|
| | W×L×D (mm) | (m/s) | (m3/h) | (Pa) |
| SMW-20×10×2 | 492×238×46 | 2.5 | 1050 | 15 |
| SMW-20×16×2 | 492×390×46 | | 1720 | |
| SMW-20×20×2 | 492×492×46 | | 2170 | |
| SMW-24×24×2 | 594×594×46 | | 3170 | |
| SMW-25×16×2 | 619×390×46 | | 2170 | |
| SMW-25×20×2 | 619×492×46 | | 2740 | |

※ Can accept orders with non-standard specifications

### Performance features:

**Outer frame:** detachable aluminum profile, galvanized frame, or stainless steel outer frame.
**Filter material:** multi-layer corrugated expanded aluminum mesh or stainless steel mesh;
High dust holding capacity synthetic fiber, the filter material is replaceable.
**Efficiency:** (EN779:2002) G3, G4
(ASHRAE 52.2:2007)MERV6,MERV7.
**Recommended final pressure loss:** 250Pa.

### Application scope:

Primary filtration of industrial air ventilation equipment;

## MEDIUM EFFICIENCY FILTER

The medium-efficiency filter can remove more than 99.97% of particles with a diameter of 0.3 microns (11,200 hair diameters) and is a filtration medium for pollutants such as smoke, dust, and bacteria. It can be processed into various sizes and shapes according to customer needs, suitable for different machine models.

### Common specifications:

| Model | Dimensions | Media Area(㎡) | | Rated Air Flow(m³/h) | | Initial Pressure Drop(Pa) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | W×L×D (mm) | Standard | High wind volume | Standard | High wind volume | F6 | F7 | F8 | F9 |
| SMH320 | 320×320×220 | 4.1 | 6.1 | 540 | 800 | 90 | 130 | 140 | 150 |
| SMH484/10 | 484×484×220 | 9.6 | 14.4 | 1300 | 1950 | | | | |
| SMH484/15 | 726×484×220 | 14.6 | 21.9 | 1950 | 2900 | | | | |
| SMH484/20 | 968×484×220 | 19.5 | 29.2 | 2600 | 3200 | | | | |
| SMH630/05 | 315×630×220 | 8.1 | 12.1 | 1100 | 1700 | | | | |
| SMH630/10 | 630×630×220 | 16.5 | 24.7 | 2200 | 3300 | | | | |
| SMH630/15 | 945×630×220 | 24.9 | 37.3 | 3300 | 4900 | | | | |
| SMH630/20 | 1260×630×220 | 33.4 | 50.1 | 4400 | 6000 | | | | |
| SMH610/03 | 305×305×150 | 2.4 | 3.6 | 425 | 630 | | | | |
| SMH610/05 | 305×610×150 | 5 | 7.5 | 850 | 1200 | | | | |
| SMH610/10 | 610×610×150 | 10.2 | 15.3 | 1700 | 2550 | | | | |
| SMH610/15 | 915×610×150 | 15.4 | 23.1 | 2550 | 3800 | | | | |
| SMH610/20 | 1220×610×150 | 20.6 | 30.9 | 3400 | 5100 | | | | |
| SMH610/05X | 305×610×292 | 10.1 | 15.1 | 1700 | 2550 | | | | |
| SMH610/10X | 610×610×292 | 20.9 | 31.3 | 3400 | 5100 | | | | |

※ Can accept orders with non-standard specifications

### Performance features:

**Outer frame:** galvanized frame, aluminum frame or stainless steel frame.
**Filter material:** glass fiber; aluminum foil or paper spacer.
**Efficiency:** (EN779:2002) F6, F7, F8, F9; (ASHRAE 52.2:2007) MERV12, MERV13, MERV14, MERV15.
**Recommended final pressure loss:** 450Pa.

### Application scope:

Used in air purification systems such as electronics, biopharmaceuticals, mechanical instrumentation, petrochemical light industry, etc. as a HEPA front protection section filter.

## HIGH EFFICIENCY FILTER

HEPA means high-efficiency air filter in Chinese. A filter that meets the HEPA standard has an efficiency of 99.7% for 0.1 microns and 0.3 microns. The characteristic of the HEPA network is that air can pass through, but small particles cannot. It can remove more than 99.97% of particles with a diameter of 0.3 microns (1/200 of the diameter of a hair) and is a filter medium for pollutants such as smoke, dust and bacteria. Features: small wind resistance, large dust holding capacity, high filtration precision, can be processed into various sizes and shapes according to customer needs, and suitable for different models.

| Model | Dimensions | Media Area | Rated Air Flow | Face Velocity | Initial Pressure Drop (Pa) | | |
|---|---|---|---|---|---|---|---|
| | W×H×D (mm) | ($m^2$) | ($m^3$/h) | (m/s) | H13 | H14 | U15 |
| SHW610/03-50 | 305×305×50 | 1.6 | 150 | 0.5 | ≤190 | ≤250 | ≤280 |
| SHW610/05-50 | 305×610×50 | 3.3 | 300 | | | | |
| SHW610/10-50 | 610×610×50 | 6.7 | 600 | | | | |
| SHW610/15-50 | 915×610×50 | 10.1 | 900 | | | | |
| SHW610/20-50 | 1220×610×50 | 13.5 | 1200 | | | | |
| SHW610/03-70 | 305×305×70 | 2.7 | 250 | 0.75 | | | |
| SHW610/05-70 | 305×610×70 | 5.5 | 500 | | | | |
| SHW610/10-70 | 610×610×70 | 11.3 | 1000 | | | | |
| SHW610/15-70 | 915×610×70 | 17 | 1500 | | | | |
| SHW610/20-70 | 1220×610×70 | 22.7 | 2000 | | | | |
| SHW610/03-90 | 305×305×90 | 3.7 | 320 | 1 | | | |
| SHW610/05-90 | 305×610×90 | 7.5 | 650 | | | | |
| SHW610/10-90 | 610×610×90 | 15.4 | 1300 | | | | |
| SHW610/15-90 | 915×610×90 | 23.2 | 2000 | | | | |
| SHW610/20-90 | 1220×610×90 | 31.1 | 2600 | | | | |

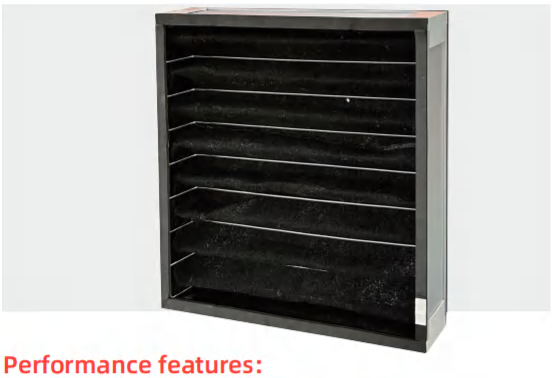
※ Can accept orders with non-standard specifications

### Performance features:

**Outer frame:** aluminum frame.
**Filter material:** PP filter paper, glass fiber, composite PP PET filter paper, melt-blown polyester
Non-woven and melt-blown fiberglass; high dust holding capacity, low resistance.
**Efficiency:** (EN779:2002) H13, H14, U15 (ASHRAE 52.2:2007) MERV18, MERV19, MERV20.
**Recommended final pressure loss:** 450Pa.
**Operating temperature:** normal temperature.

### Application scope:

It is mainly used for terminal filtration in places requiring high cleanliness such as electronics, pharmaceutical industries and hospitals.



### Performance features:

Outer frame: galvanized or aluminum profile.
Filter material: Made of activated carbon soaked polyester non-woven fabric, steel support frame,
Good strength and replaceable filter material.
Efficiency: (EN779:2002) G4; (ASHRAE 52.2:2007) MERV7.
Recommended final pressure loss: 250Pa.

### Application scope:

Ventilation and air conditioning systems that require removal of odorous gas pollution when installation space is tight
Airports, hotels, office buildings, large shopping malls and other commercial and civil buildings, museums, libraries, etc. air supply and air conditioning systems.

## ACTIVATED CARBON FILTER

Activated carbon filter material is composed of highly efficient adsorption activated carbon fiber and filter cotton. It has strong adsorption capacity and can effectively filter dust, odors and organic pollutants in the air. It can be made into bag filters and pleated filters. Widely used in various ventilation systems.

| Model | Dimensions | Rated Air Flow | Initial Pressure Drop |
|---|---|---|---|
| | W×H×D (mm) | ($m^3$/h) | (Pa) |
| SPAC-24×24×2 | 595×595×45 | 3400 | 135 |
| SPAC-12×24×2 | 290×595×45 | 1700 | |
| SPAC-20×24×2 | 493×595×45 | 3200 | |
| SPAC-20×20×2 | 493×493×45 | 3200 | |
| SPAC-12×20×2 | 290×493×45 | 1700 | |
| SPAC-20×24×1 | 493×595×20 | 1900 | 85 |
| SPAC-20×20×1 | 493×493×20 | 1900 | |
| SPAC-12×20×1 | 290×493×20 | 900 | |
| SPAC-24×24×1 | 595×595×20 | 2000 | |
| SPAC-12×24×1 | 290×595×20 | 1000 | |

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