WHALESENS

Whalesens Technology Co., Ltd

With the power of whales,guard the peace
of every moment of breathing.

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Product Manual

Air Filter Media

Air Filter

Chemical Filter

Air Filter Media

Whalesens Air Filter Media, covering initial efficiency (G1-G4), medium efficiency (F5-F8) to high efficiency full series, using synthetic fibers, glass fibers, activated carbon and other materials, specially designed for harsh industrial environments.

Hierarchical Interception: Multi-layer encryption technology, coarse filtration >5μm particles (dust capacity up to 6800g/m²), medium efficiency captures 1-5μm particles, high efficiency purifies ultrafine particles below 0.5μm;

Long-Effect Economy: Washable reusable, lifespan increased 2 times, reduces operational costs.

Core Products: Blue-white pre-filter media, spray booth ceiling media, glass fiber filter media, high-temperature resistant glass fiber cotton, activated carbon adsorption media.

Applicable Fields: Automobile manufacturing, energy chemical industry, biomedicine, commercial fresh air.

Pre Air Filter Media

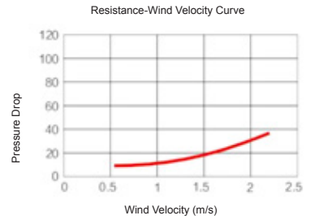
Product Features

Used for dust filtration in air conditioning and ventilation systems, protective dust filtration for machinery, equipment rooms, pre-filtration in high-quality spraying systems, and baking oven air supply systems. Available in slices, framed slices, or rolls.

1. Cost-effective, high dust-holding capacity, low resistance, elastic, stable performance.
2. Filtration efficiency for 5μm particles: 40%, 65%, 80%, 90% (G1, G2, G3, G4 by gravimetric testing).
3. Made of polyester fiber (PET) through carding, multi-layer densification, and hot-air bonding for enhanced elasticity and break resistance.
4. Resistant to general solvents, weak acids, and weak alkalis.
5. Filtration grade: G4 (EN779), EU4 (EUROVENT).

Technical Index

Filtration Grade:G2, G3, G4(EN779); EU2, EU3, EU4
Humidity resistance:100% RH
High temperature resistance:≤ 100 °C
Target particles: ≥ 5μm coarse dust
Instant temperature resistance: ≤ 120 °C
Flame retardancy: F1, B1

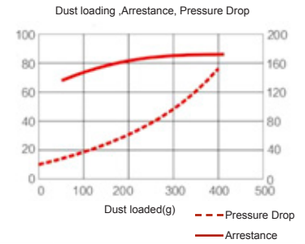


Material characteristics

1.Made by combing polyester fibers (PET) with elasticity and fracture resistance, then gradually densifying and laying the mesh through hot air fusion process;

2.After spray coating treatment, it can be cleaned and reused, or the dust can be removed by tapping or blowing back, and continued to be used;

3. It has a certain anti-corrosion effect on general solvents, weak acids, and weak bases;



Technical Parameter

Filtration Grade	Model	Thickness (mm)	Weight(g/m²)	Wind Velocity Test(m/s)	Dust Holding Capacity(g/m²)	Initial Resistance (Pa)	Final Resistance (Pa)	Average Weight Efficiency
G2	WS1-100G	5	100	2	380	20	125	68%
G3	WS1-150G	10	150	2	450	20	200	83%
G3	WS1-300G	15	300	1.5	500	20	200	85%
G4	WS1-400G	20	400	1	580	25	250	91%
G4	WS1-500G	25	500	1	680	25	250	91%-95%

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Paint Booth Ceiling Filter Media

WS-560G

Product Features

Used in air intake systems for spray processes and coating workshops where air purification requires exceptionally stringent standards. Made from 100% polyester fibers, it offers exceptional durability and filtration efficiency. The progressive density layering structure ensures effective capture and removal of overspray, dust, and contaminants from the air.

1. Low resistance, elastic, high dust-holding capacity, high efficiency
2. Standard sizes W x L x T(mm):1.6m x 21m x25mm, 2m x 21m x 25m, Customization Available.
3. Installation methods: Cut-to-size installation, Framed segmented installation, Full-roll deployment.

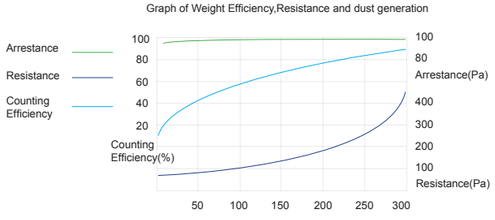
Technical Index

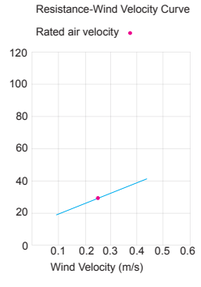
Filtration Grade:M5; MERV9, MERV10
Moisture resistance:100% RH
High temperature resistance:≤ 100 °C
Filter object: ≥ 1μm particles
Instant temperature resistance: ≤ 120 °C
Flame retardant level: F1(DIN5343), B1(GB/T 17591-2006)

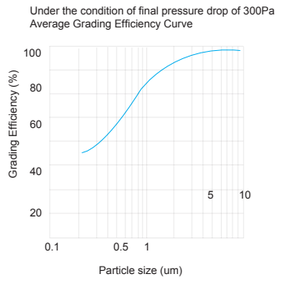
Material characteristics

1. Manufactured from elastic and fracture-resistant polyester fiber (PET) through a process of carding, gradational density layering, and hot air fusion technology.
2. Each fiber undergoes specialized viscosity treatment** to enhance persistent adhesion of captured particles, meeting stringent quality requirements in coating applications.
3. Reinforced with mesh/fabric on the air outlet side to ensure structural integrity and uniform air distribution.
4. Exhibits corrosion resistance against common solvents, mild acids, and mild alkalis.

Technical Parameter







Filtration Grade	Model	Thickness (mm)	Average Weight Efficiency	Weight(g/m^2)	Rated Air Flow(m^3/h)	Wind Velocity Test(m/s)	Dust Holding Capacity(g/m^2)	Initial Resistance (Pa)	Final Resistance (Pa)
M5	WS-560G	20±3	95%	560	1000	0.25	500	45	450

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Paint Booth Ceiling Filter Media

WS-600G

Product Features

Used in air intake systems for spray processes and coating workshops where air purification requires exceptionally stringent standards.

1. Standard sizes W x L x T(mm):1.6m x 21m x25mm, 2m x 21m x 25m, Customization Available.
2. Fine filtration for air supply systems in spray booths and paint baking rooms
3. Dust filtration for coating equipment, coating systems, and coating workshops
4. Secondary-stage filtration in high-quality spray systems and baking equipment air supply systems
5. Filter media for medium-efficiency panel-type filters
6. Installation methods: Cut-to-size installation, Framed segmented installation, Full-roll deployment .

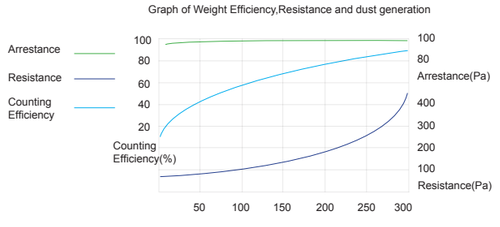
Technical Index

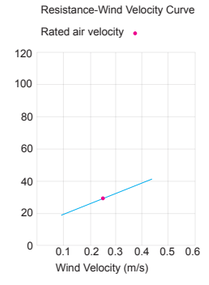
Filtration Grade:F5\M5,EU5
Moisture resistance:≤ 100% RH
High temperature resistance:≤ 100 ° C
Filter object: ≥ 1μm particles
Instant temperature resistance: ≤ 120 ° C
Flame retardant level: F1（DIN53438）

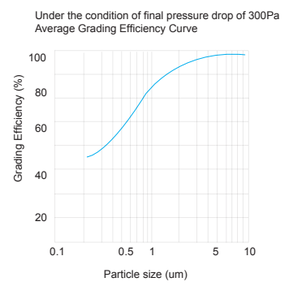
Material characteristics

1. Manufactured from elastic and fracture-resistant polyester fiber (PET) through a process of carding, gradational density layering, and hot air fusion technology.
2. Each fiber undergoes specialized viscosity treatment** to enhance persistent adhesion of captured particles, meeting stringent quality requirements in coating applications.
3. Reinforced with mesh/fabric on the air outlet side to ensure structural integrity and uniform air distribution.
4. Exhibits corrosion resistance against common solvents, mild acids, and mild alkalis.

Technical Parameter







Filtration Grade	Model	Thickness (mm)	Average Weight Efficiency	Weight(g/m^2)	Rated Air Flow(m^3/h)	Wind Velocity Test(m/s)	Dust Holding Capacity(g/m^2)	Initial Resistance (Pa)	Final Resistance (Pa)
M5	WS-600G	20±3	98%	600	900	0.25	600	≤ 50	450

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Paint Booth Ceiling Filter Media

WS-ZR600G

Product Features

The WS-ZR600G is a flame-retardant filter that can withstand temperatures up to 120°C. It has a fire-resistant outer layer and is thermally bonded to create a progressive density that improves overspray filtration. The multiple layers of the filter maintain a high dust holding capacity while ensuring low pressure drop.

1. Used in air intake systems for spray processes and coating workshops where air purification requires exceptionally stringent standards.
2. Made of 100% polyester fibers.
3. Standard sizes W x L x T(mm):1.6m x 21m x20mm, 2m x 20m x 15m, Customization Available.
4. Applications: Automotive paint booths, Aerospace paint booths, General industry paint booths.

Technical Index

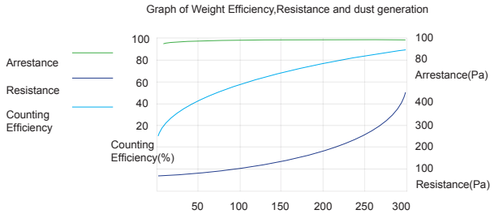
Filtration Grade:M5; MERV9, MERV10
Moisture resistance:≤ 100% RH
High temperature resistance:≤ 100 ° C

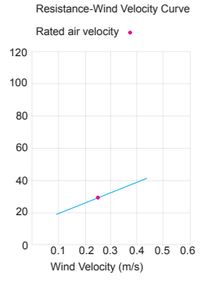
Filter object: ≥ 1μm particles
Instant temperature resistance: ≤ 120 ° C
Flame retardant level: S2（DIN53438）,V-0(UL 94 LB)

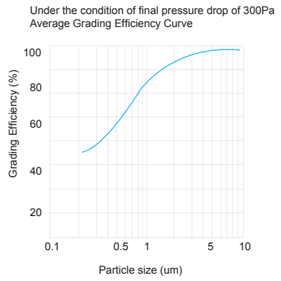
Material characteristics

1. Manufactured from elastic and fracture-resistant polyester fiber (PET) through a process of carding, gradational density layering, and hot air fusion technology.
2. Each fiber undergoes specialized viscosity treatment** to enhance persistent adhesion of captured particles, meeting stringent quality requirements in coating applications.
3. Reinforced with mesh/fabric on the air outlet side to ensure structural integrity and uniform air distribution.
4. Exhibits corrosion resistance against common solvents, mild acids, and mild alkalis.

Technical Parameter







Filtration Grade	Model	Thickness (mm)	Average Weight Efficiency	Weight(g/m^2)	Rated Air Flow(m^3/h)	Wind Velocity Test(m/s)	Dust Holding Capacity(g/m^2)	Initial Resistance (Pa)	Final Resistance (Pa)
M5	WS-ZR600G	20±2	93%	600	900	0.25	600	≤ 45	400

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HVAC Air Filter Media

Product Features

Designed for the first stage or coarse filtering process in the inlet of general ventilation, air conditioning equipment, or HVAC systems, this air filter material/media is the most famous material that efficiently removes large particles, dust, and dirt before they enter the system or equipment. HVAC Air Filter Media, which can be used in slices, slices framed, and whole rolls.

1. High dust-holding capacity and low-pressure drop, Washable air filter material
2. Standard sizes W x L x T(mm):1m x 20m x20mm, 2m x 20m x 20m, Customization Available.

Technical Index

Filter material: Synthetic fibers
Filtration Grade:G2, G3, G4
Moisture resistance:≤ 100% RH
High temperature resistance:≤ 100 °C

Filter object: ≥ 5μm particles
Instant temperature resistance: ≤ 120 °C
Flame retardant level: F1(DIN53438), B1(GB/T17591-2006)

Material characteristics

1. Made of elastic and break-resistant polyester fiber (PET), which is combed and laid in a dense layer by layer through hot air fusion process.
2. Each fiber is specially treated with viscosity to improve the long-term adhesion of captured particles to meet the strict quality requirements of coating technology.
3. The air outlet surface is covered with mesh and reinforced with cloth to ensure strength and air flow uniformity.
4. It has a certain corrosion resistance to general solvents, weak acids and weak bases;

Technical Parameter

Filtration Grade	Model	Thickness(mm)	Weight (g/m^2)	Average Weight Efficiency	Wind Velocity Test(m/s)	Dust Holding Capacity(g/m^2)	Initial Resistance (Pa)	Final Resistance (Pa)
G2	WS-P150	10	150	83%	2	450	20	200
G3	WS-P200	15	200	85%	1.5	500	20	200
G4	WS-P250	20	250	91%	1	580	25	250

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Pocket Filter Media Roll

Product Features

Filter bag media rolls for pocket air filters are specialized materials used in the construction of pocket filters, which are integral components of HVAC systems for air purification. These media rolls are designed to trap and hold particulates from the air, effectively preventing them from circulating within an indoor environment.

1. Filtration Grade: G4,M5,M6; MERV7-MERV12
2. Synthetic fibers: Polyester or polypropylene
3. This filter bag media is a semi-finished product for pocket filter assembly. It can be easily cut into the length needed to create a pocket filter with multiple bags.
4. Applications: Commercial HVAC Systems, Industrial Settings, Healthcare Facilities, Residential Systems.

Material characteristics

1. Made of elastic and break-resistant polyester fiber (PET), which is combed and laid in a dense layer by layer through hot air fusion process
2. Each fiber is specially treated with viscosity to improve the long-term adhesion of captured particles to meet the strict quality requirements of coating technology
3. The air outlet surface is covered with mesh and reinforced with cloth to ensure strength and air flow uniformity
4. It has a certain corrosion resistance to general solvents, weak acids and weak bases;

Technical Parameter

Filtration Grade	0.3um Efficiency	0.5um Efficiency	1.0um Efficiency	5.0um Efficiency	Resistance (Pa)	EUR Standard color	CN Standard color	Size	Testing Media	Rated Air Flow(m^3/h)
G4	5-15%	15-35%	35-45%	70-80%	1.0-1.5	White	White	Customized	NACL	32.0L/Min
M5	50-70%	70-80%	80-90%	100%	5.0-6.0	White/Orange	White/Orange			
M6	70-80%	80-90%	90-95%	100%	5.5-6.5	Green	Green			
M7	80-90%	90-95%	95-98%	100%	10.0-11.5	Pink	Pink			
M8	90-95%	95-97%	97-99%	100%	16.0-17.5	Light/Yellow	Light/Yellow			
M9	95-97%	97-99%	99-100%	100%	20.0-22.0	White	White			

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Fiberglass Filter Media

Product Features

Fiberglass Filter Media (also known as paint filter padding, spray booth filter, fiberglass wool, or paint-resistant filter cotton) features high capture efficiency. Primarily used for: Paint mist filtration in coating systems,Industrial oil mist emission filtration ,General ventilation pre-filtration.

Available in multiple formats:
Custom slices | Framed slices | Full rolls

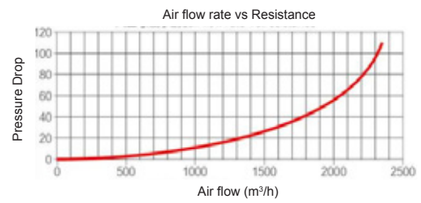
1. Resilient Loft Structure
   Prevents premature surface clogging
   Maintains shape under pressure, maximizing filtration space for paint mist and sticky dust capture
2. Non-Woven Glass Fiber Construction
   High air permeability with low airflow resistance
   Exceptional overspray capture efficiency
   Extended service life
3. Standard Thickness:50mm-60mm
4. Applications:
   High-capture spray painting industries
   Paint mist filtration | Filter units | Baking booths
   Automotive spray shops | Furniture factories | Kitchen grease filtration

Technical Index

Filtration Grade:G3(EN 779)、EU3(EUROVENT)
Moisture resistance:100%RH
High temperature resistance:≤170°C
Filter object: Paint mist、Oil mist、Dust Praticles
Flame retardant level: F1, B1

Material characteristics

1. Progressive-Structure Fiberglass Material
   Loft structure at inlet side (green) gradually tightens toward outlet side (white)
   Fiber density increases progressively along airflow direction
   High elasticity with superior fracture resistance
2. Advanced Chemical Resistance
   Corrosion-resistant against solvents, acids, and alkalis
   Heat resistance: Withstands up to 170°C continuous operating temperature



Technical Parameter

Model	Thickness (mm)	Weight(g/m^2)	Wind Velocity Test(m/s)	Dust Holding Capacity(g/m^2)	Initial Resistance (Pa)	Final Resistance (Pa)	Average Weight Efficiency
WS-FB5	5	240	0.7-1.5	3200-3600	15	250	92%-96%
WS-FB10	10	320	0.7-1.75	3600-3900	20	280	97%-99%

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Air Filter Media

Air Filter

Chemical Filter

Air Filter

Whalesens Air Filters covering coarse to HEPA high-efficiency full series, specially developed for ultra-clean environments like hospitals and laboratories. High-efficiency filters use ultrafine glass fiber as the core to achieve nanoscale purification efficiency.

Precise Interception: Multi-layer gradient structure, 0.5μm particle interception efficiency ≥99.999%, bacterial retention rate >99.97%; PM0.3 filtration efficiency up to 99.99%, meeting high-cleanliness requirements of semiconductors and pharmaceuticals.

Scenario Versatility: High-temperature resistance (≤450°C), flame retardant (Class B1), corrosion-resistant, safeguarding spraying, petroleum, and chemical safety.

Stable & Reliable Moisture/pressure-resistant design (100%RH) ensures continuous safety in operating rooms and PCR laboratories.

Applicable Fields: Automotive spraying, semiconductors, data centers, biomedicine, chemical energy, food & beverage, animal husbandry.

Washable Plank Air Filters

Product Features

Used for primary filtration in air vents and air-contact points such as clean rooms, fresh air conditioning systems, fresh air units, and central air conditioning systems. It can be used as the main filter for general central air conditioning, etc., or as a pre-filter for rear-end filters, prolonging the service life of rear-end filters.

1. Low resistance, reduces operating energy, high dust-holding capacity, economical and practical.
2. Washable filter media can be selected, detachable structure, filter media, frame, and protective mesh are reusable.
3. Standard sizes W x H x D(mm):595 x 595 x 46, 595 x 595 x 96, Customization Available.
4. Widely used in industries such as automotive, medical & pharmaceutical, food & beverage, energy & chemical, etc., for pre-filtration in ventilation and air conditioning systems of large civil buildings like office buildings, conference rooms, hospitals, shopping malls, schools, museums, airports, etc.

Technical Index

Grade: G3, G4; MERV5, MERV6, MERV7, MERV8

Moisture Resistance: 100% RH

Heat Resistance: ≤100°C

Filter object: ≥ 5μm coarse dust and foreign particles

Filtration Efficiency: 75%, 85%, 95% (ASHRAE 52.1-1992)

Instantaneous Temperature Resistance: ≤120°C

Material characteristics

Filter media: : Polyester synthetic fibers

Frame options: Aluminum, Stainless steel, and Galvanized steel

Technical Parameter

Model	Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance(Pa)	Rated Air Flow(m^3/h)
WS-1P01	G3(EN799)	595*595*46	35	200	3400
WS-1P02		595*595*96	30	200	3400
WS-1P11	G4(EN799)	595*595*46	50	250	3400
WS-1P12		595*595*96	45	250	3400

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Pleated Panel Filter

Product Features

Used for primary filtration in air vents and air-contact points such as clean rooms, fresh air conditioning systems, fresh air units, and central air conditioning systems. It can be used as the main filter for general central air conditioning, etc., or as a pre-filter for rear-end filters, prolonging the service life of rear-end filters.

1. Low resistance, reduces operating energy, high dust-holding capacity, economical and practical.
2. Washable filter media can be selected, detachable structure, filter media, frame, and protective mesh are reusable.
3. Standard sizes W x H x D(mm):595 x 595 x 46, 595 x 595 x 96, Customization Available.
4. Widely used in industries such as automotive, medical & pharmaceutical, food & beverage, energy & chemical, etc., for pre-filtration in ventilation and air conditioning systems of large civil buildings like office buildings, conference rooms, hospitals, shopping malls, schools, museums, airports, etc.

Technical Index

Grade: G2、G3、G4（EN779），EU2、EU3、EU4

Moisture Resistance: 100% RH

Heat Resistance: ≤100°C

Filter object: ≥ 5μm coarse dust and foreign particles

Filtration Efficiency: 75%, 85%, 95% (ASHRAE 52.1-1992)

Instantaneous Temperature Resistance: ≤120°C

Material characteristics

Filter media: : polyester synthetic fibers

Frame options: aluminum, stainless steel, and galvanized steel

Technical Parameter

Model	Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance(Pa)	Rated Air Flow(m^3/h)
WS-2P01	G3	595*595*20	30	200	3000
WS-2P02		595*595*46	30	200	3400
WS-2P03		595*595*96	35	200	3400
WS-2P10	G4	595*595*20	38	250	2800
WS-2P11		595*595*46	38	250	3400
WS-2P12		595*595*96	40	250	3400

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Metal Plank Filter Mesh

Product Features

Primarily used in ultra-clean ovens, automotive painting systems, and other high-temperature air purification equipment.

1. Metal construction ,Rigid architecture, high dust-holding capacity, large air volume filtration
2. Standard sizes (W × H × D): 595 × 595 × 15mm ,595 × 595 × 20mm,Custom sizes available.
3. Applications: High-temperature manufacturing processes ,Industrial furnaces & ovens ,Power generation facilities ,Automotive paint curing ovens & exhaust systems ,Aerospace component testing environments.

Technical Index

Grade: G3, G4

Moisture Resistance: 100% RH

Heat Resistance: ≤300°C

Filter object: ≥ 1-10μm coarse dust and foreign particles

Filtration Efficiency: 45%~95%@0.5μm

Instantaneous Temperature Resistance: ≤350°C

Material characteristics

Filter media: : polyester synthetic fibers

Frame options: aluminum（optional aluminum 7~96mm）, stainless steel, and galvanized steel

Technical Parameter

Model	Dimensions (mm) W*H* D	Velocity (m/s)	Media Area Flow (m^2)	Rated Air Flow(m^3/h)
WS-3P01	287*287*10	2.54	0.17	800
WS-3P02	592*287*10	2.54	0.34	1600
WS-3P03	592*592*10	2.54	0.70	3200
WS-3P04	592*592*15	2.54	1.05	3200
WS-3P05	287*287*21	2.54	0.41	800
WS-3P06	592*287*21	2.54	0.82	1600
WS-3P07	592*592*21	2.54	1.75	3200
WS-3P08	592*490*46	2.54	2.61	2650
WS-3P09	592*287*50	2.54	1.87	1600
WS-3P10	592*592*50	2.54	3.86	3200

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High-Temperature Fiberglass Panel Air Filter

Product Features

Whalesens fiberglass panel air filters are uniquely designed for high-temperature applications up to 300°C (575°F). The media of this high temp panel filter is composed of multiple layers that are formed by a random array of glass fibers. The nonwoven structure of this filter demonstrates good chemical and temperature resistance.

1. Low resistance, reduces operating energy, high dust-holding capacity, economical and practical.
2. Resistant to chemical corrosion and low liquid loading rate.
3. Designed for high-temperature applications up to 300°C (575°F).
3. Standard sizes W x H x D(mm):500 x 500 x 15, 500 x 500 x 21, Customization Available.
4. Widely used in industries such as automotive, medical & pharmaceutical, food & beverage, energy & chemical, etc., for pre-filtration in ventilation and air conditioning systems of large civil buildings like office buildings, conference rooms, hospitals, shopping malls, schools, museums, airports, etc.

Technical Index

Grade: G2、G3、G4 (EN779) , EU2、EU3、EU4

Moisture Resistance: 100% RH

Heat Resistance: ≤240°C

Filter object: ≥ 5μm coarse dust and foreign particles

Filtration Efficiency: 75%, 85%, 95% (ASHRAE 52.1-1992)

Instantaneous Temperature Resistance: ≤300°C

Material characteristics

Filter media: : Fiberglass

Frame options: Aluminum, stainless steel, and galvanized steel

Technical Parameter

Model	Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance(Pa)	Wind Velocity Test (m/s)	Average Weight Efficiency
WS-4P01	G3(EN799)	500*500*15	45	250	1.0	86%
WS-4P02		500*500*21	45	250	1.0	86%
WS-4P03		500*500*96	60	250	1.0	86%

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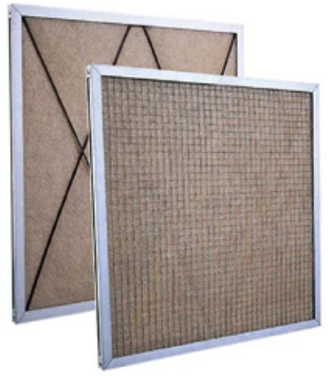
High-Temperature Panel Filters

Product Features



High-temp resistant panel air filters are best for use in specific industrial applications that are designed to reach and maintain high temperatures for various industrial processes, such as baking, drying, curing, or heat-treating. They are commonly used in industries such as food processing, automotive, aerospace, and electronics, among others.

1. Exceptional High-Temperature Resistance: Specifically engineered for industrial processes requiring sustained high temperatures (e.g., baking, drying, curing, heat-treating).
2. Critical Contaminant Capture: Effectively traps dust, debris, paint/coating particles, and finishing material residues to prevent product defects and contamination.
3. Resistant to chemical corrosion,strong heat resistance and low moisture absorption.
4. Standard sizes W x H x D(mm): 500 x 500 x 12, 500 x 500 x 21, Customization Available.
5. Applications:

Industrial high-temperature ovens for coating or painting

Hot air high-temp ovens

General dust filters

Technical Index

Grade: G2、G3、G4 (EN779) , EU2、EU3、EU4

Filter object: 1-10μm coarse dust and foreign particles

Moisture Resistance: 100% RH

Heat Resistance: ≤240°C

Material characteristics

Filter media: : flame-retardant fibers

Frame options: Galvanized,stainless steel or aluminum

Technical Parameter

Model	Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance(Pa)	Wind Velocity Test (m/s)	Average Weight Efficiency
WS-5P01	G3	500*500*15	50	250	1.0	86%
WS-5P02	G4	500*500*21	50	250	1.0	86%

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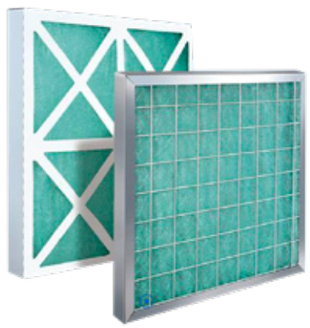
Spray booth Air Filters

Product Features

Paint spray booth specialty filter designed for effective overspray capture. Constructed with galvanized steel, aluminum alloy, or stainless steel frames housing an internal filter media support frame. Compact structure, lightweight, and easy to install/remove. Optimized pleat design maximizes filtration area while reducing resistance and increasing dust-holding capacity.General coarse dust filtration, hot-air high-temperature ovens, automotive industry, furniture manufacturing.



1. Triple-High Performance: High reliability,High adsorption rate,High flame retardancy.
2. Structural Advantages: Graded density structure,Exceptional formaldehyde removal,High dust-holding capacity, Extended service life.
3. Environmental Resistance: Strong moisture resistance, Excellent chemical corrosion resistance, Withstands 170°C (338°F) to 250°C (482°F).
4. Standard Sizes (W×H×D mm):595×595×46, 494×595×46, 295×595×46, 495×495×46
5. Applicationg: Automotive • Furniture • Commercial buildings • Food & beverage • Microelectronics • Surface treatment plants • Schools • Museums

Technical Index

Grade: G3、G4、EU3、EU4　　Filter object: ≥5μmm, ≥3μm
Moisture Resistance:100% RH　　Instantaneous Temperature Resistance: ≤120°C
Heat Resistance: ≤100°C

Material characteristics

Filter Media: Non-woven fabric, nylon mesh, activated carbon filter cotton, metal wire mesh.
Frame: Paper frame, aluminum frame, galvanized iron frame, stainless steel frame .
Separator: Hot melt adhesive.
Sealant: PU (Polyurethane) two-component glue.
Sealing Strip: Polyurethane foam sealing strip, EVA (Ethylene-Vinyl Acetate) .
Protective Mesh: Double-sided plastic-coated wire mesh, double-sided galvanized wire mesh.

Technical Parameter

Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance(Pa)	Rated Air Flow(m^3/h)	Filtration Efficiency
G3	595*595*46	10	250	3200	85%
	495*595*46			2700	
	295*595*46			1600	
	495*495*46			2200	
G4	595*595*46	20	250	3200	95%
	495*595*46			2700	
	295*595*46			1600	
	495*495*46			2200	

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Medium-efficiency Pleated Filters

Product Features

Used for intermediate or terminal filtration in commercial and industrial ventilation systems, air conditioning systems; fresh air conditioning systems in clean rooms; inal filtration at air supply outlets in dust-free workshops.

1. Low resistance, reduces operating energy, high dust-holding capacity, economical and practical.
2. Washable filter media can be selected, detachable structure, filter media, frame, and protective mesh are reusable.
3. Widely used in numerous fields such as surface treatment, painting, chemical industry, cosmetics, biopharmaceuticals, hospitals, automotive industry, etc.

Technical Index

Grade: F5, F6, F7, F8 (EN779)　　Filter object: ≥ 1μm coarse dust and foreign particles
Moisture Resistance:100% RH　　Instantaneous Temperature Resistance: ≤120°C
Heat Resistance: ≤100°C

Material characteristics

Filter Media:High-strength PET filter paper　　Sealant: PU (Polyurethane) two-component glue
Frame: Aluminum alloy, galvanized steel, stainless steel　　Sealing Strip:Polyurethane foam sealing strip glue, EVA(Ethylene-Vinyl Acetate)
Separator:Hot melt adhesive

Technical Parameter

Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance(Pa)	Rated Air Flow(m^3/h)	Filtration Efficiency
F5	595*595*46	≤90	≤360	3000	45%
	495*495*46			2300	
	295*595*46			1600	
F6	595*595*46	≤105	≤420	3600	65%
	495*495*46			2400	
	295*595*46			1800	
F7	595*595*46	≤120	≤480	3300	85%
	495*495*46			2300	
	295*595*46			1600	
F8	595*595*46	≤140	≤560	2500	95%
	495*495*46			1700	
	295*595*46			1200	

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DPA Spray Booth Pocket Filters

Product Features

DPA Paint Mist Filter (also known as Environmentally Friendly New Paint Mist Filter):
Unique bag-style structural design increases filtration area by 3 times compared to traditional flat-panel filters. During spraying processes, large amounts of medium-sized paint mist particles disperse in workshops. The bag filter efficiently intercepts these particles through optimized airflow guidance, ensuring effective air purification, reducing impacts on operators and the environment.

1. Premium 3D diamond-pocket filter media: High paint adsorption capacity, Low resistance (20Pa),High efficiency (99.8%),Long service life.
2. Filter element: Strong water resistance (flame-retardant version available for order)
3. Special synthetic fiber media with anti-adhesive surface treatment, efficiently captures medium-sized paint mist particles (1-5μm).
4. Dimensions: 592×592×320×3P,590×490×500×3P,Custom sizes available.
5. Applications: Widely used in automotive, furniture industries – paint booths (baking/wet/dry), polishing rooms.

Technical Index

Grade: G3、G4、EU3、EU4　　Filter object: ≥5μm，≥10μm，≥20μm
Moisture Resistance:100% RH　　Instantaneous Temperature Resistance: ≤120°C
Heat Resistance: ≤100°C

Material characteristics

Filter Media: Special synthetic fiber, strong water resistance (flame-retardant version orderable).
Frame: Aluminum alloy, galvanized iron, stainless steel, plastic, wood.
Sealant: PU two-component polyurethane glue.
Sealing Strip: Polyurethane foam sealing strip, EVA.

Technical Parameter

Filtration Grade	Dimensions (mm) W*H* D	Pockets Quantity	Initial Resistance (Pa)	Final Resistance (Pa)	Filtration Area (m^3)	Rated Air Flow (m^3/h)	Paint-Holding Capacity (kg)
G3	592*592*320	3	30	200	1.14	3200	3.42
	592*592*320	4	30	200	1.51	3200	4.53
G4	592*592*320	3	45	250	1.14	3200	3.42
	592*592*320	4	45	250	1.51	3200	4.53

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Medium-efficiency Pocket Filters

Product Features

Medium-efficiency bag filters are typically used as pre-filters for HEPA filters and terminal filters in air conditioning systems, reducing the load on high-efficiency air filters and extending their service life. Available in grades G4 to F9. Their large frontal area enables high dust-holding capacity and low airflow resistance, making them the optimal medium-efficiency filter structure.

1. Large filtration area with unique open-bag design
   Low energy consumption, high dust capacity
   Cost-effective, stable performance, corrosion-resistant
   Long service life, easy recycling
2. Special non-woven or fiberglass media
   Frames: Galvanized steel or aluminum alloy
3. Standard sizes (W×H×D mm): 287×592×550, 592×592×550, 592×592×600, Custom sizes available.

F5 Medium-efficiency bag Air Filter
Efficiency: 40%-45%
Application: Primary filtration capturing large particles; requires frequent replacement.
Typical Use: Basic HVAC systems, industrial pre-filtration.

F6 Medium-efficiency bag Air Filter
Efficiency: 60%-65%
Application: Industrial cleanrooms in pharmaceuticals, hospitals, electronics, food processing, automotive spray booths

Technical Parameter

Filtration Grade	Dimensions (mm) W*H* D	Pockets Quantity	Media area(m^3)	Initial Resistance (Pa)	Final Resistance(Pa)	Rated Air Flow(m^3/h)
F5	287*592*550	3	2.12	45	400	1700
	592*592*550	5	3.25	50	400	2800
	592*592*600	6	4.28	45	400	3400
F6	287*592*550	3	2.12	50	400	1700
	592*592*550	6	3.86	65	400	2800
	592*592*600	8	5.68	65	400	3400

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Medium-efficiency Pocket Filters

Product Features

Medium-efficiency bag filters are typically used as pre-filters for HEPA filters and terminal filters in air conditioning systems, reducing the load on high-efficiency air filters and extending their service life. Available in grades G4 to F9. Their large frontal area enables high dust-holding capacity and low airflow resistance, making them the optimal medium-efficiency filter structure.

1. Large filtration area with unique open-bag design
   Low energy consumption, high dust capacity
   Cost-effective, stable performance, corrosion-resistant
   Long service life, easy recycling
2. Special non-woven or fiberglass media
   Frames: Galvanized steel or aluminum alloy
3. Standard sizes (W×H×D mm): 287×592×550, 592×592×550, 592×592×600, Custom sizes available.

F7 Medium-efficiency bag Air Filter

Efficiency: 80%-85%

Applications:

Industrial sites with high cleanliness requirements
Comfort-oriented spaces requiring smooth airflow
Industrial workshops, premium office buildings, hotel HVAC systems

F8 Medium-efficiency bag Air Filter

Efficiency: 90%-95%

Features: Ultrasonic welding on all filter bag edges → superior airtightness & seam strength (no leakage/rupture);Electrostatic fiber media → exceptional sub-micron particle capture;High dust capacity, permeability, and service life.

F9 Medium-efficiency bag Air Filter

Efficiency: 95%-99%

Applications:Ultra-clean environments,High-grade cleanrooms, Sterile production zones (biopharmaceutic als),Semiconductor fabrication plants.Optimum filtration for extreme cleanliness requirements.

Technical Parameter

Filtration Grade	Dimensions (mm) W*H* D	Pockets Quantity	Media area(m^3)	Initial Resistance (Pa)	Final Resistance (Pa)	Rated Air Flow(m^3/h)
F7	287*592*550	3	2.80	90	400	1700
	592*592*550	6	3.86	100	400	2800
	592*592*600	8	5.68	100	400	3400
F8	287*592*550	3	2.80	115	450	1700
	592*592*550	6	3.86	120	450	2800
	592*592*600	8	5.68	120	450	3400
F9	287*592*550	3	2.80	125	450	1700
	592*592*550	6	3.86	130	450	2800
	592*592*600	8	5.68	130	450	3400

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V-Bank Medium Efficiency Filter

Product Features

Used for filtration in cleanroom fresh air conditioning systems, intermediate or final filtration at air supply outlets of dust-free workshops, and high-air-volume systems with limited installation space.
1. Large filtration area, high dust-holding capacity,low resistance, reduced operating costs, easy installation, and interchangeable with common bag filters.
2. Exceptional efficiency for fine particles: Captures ≥99.99% of 0.3μm dust particles
Design airflow up to 4,200m^3/h, suitable for high-air-volume environments.
3. Standard thickness: 292mm (optimized for space-constrained ventilation systems)
Common sizes (W×H×D mm): 287×287×292/2V, 592×287×292/4V,Custom dimensions available.
4. Superior bacterial filtration performance, widely used in Electronics, optics, semiconductors, surface treatment, painting, chemical, biopharmaceuticals, hospitals, automotive industries.

Technical Index

Grade: M6, F7, F8, F9, H10, H11, H12, H13, H14; H15, H16, UH17, UH18, UH19
MERV11, MERV12, MERV13, MERV14, MERV15, MERV16-19
Moisture resistance:100% RH

Filter object: ≥0.5μm，≥0.3μm
Filtration Efficiency: 67%、75%、85%、95%、99%、99.9%、99.99%、99.999(ASHRAE 52.1-1992)
Heat-Resistant: ≤80°C

Material characteristics

Filter media: fiberglass or polypropylene
Frame : ABS plastic, Stainless/galvanized steel, Aluminum alloy
Separator: Hot melt adhesive

Sealant: PU two-component polyurethane glue
Sealing Strip: EVA , EPDM , PU

Technical Parameter

Grade	Dimensions (mm) W*H* D	Media area(m^3)	Initial Resistance (Pa)	Final Resistance(Pa)	Wind Velocity Test (m/s)	Rated Air Flow(m^3/h)
M6	287*287*292/2V	4.58	70	150	2.5	750
	592*287*292/4V	9.91				1600
	490*490*292/3V	12.20				2160
	592*592*292/4V	19.83				3200
F7	287*287*292/2V	4.58	75	180	2.5	750
	592*287*292/4V	9.91				1600
	490*490*292/3V	12.20				2160
	592*592*292/4V	19.83				3200
F8	287*287*292/2V	4.58	100	200	2.5	750
	592*287*292/4V	9.91				1600
	490*490*292/3V	12.20				2160
	592*592*292/4V	19.83				3200
F9	287*287*292/2V	4.58	125	250	2.5	750
	592*287*292/4V	9.91				1600
	490*490*292/3V	12.20				2160
	592*592*292/4V	19.83				3200
H10	287*287*292/2V	4.58	150	450	2.5	750
	592*287*292/4V	9.91				1600
	490*490*292/3V	12.20				2160
	592*592*292/4V	19.83				3200
H13	287*287*292/2V	4.58	250	500	2.5	750
	592*287*292/4V	9.91				1600
	490*490*292/3V	12.20				2160
	592*592*292/4V	19.83				3200
H14	287*287*292/2V	4.58	270	500	2.5	750
	592*287*292/4V	9.91				1600
	490*490*292/3V	12.20				2160
	592*592*292/4V	19.83				3200

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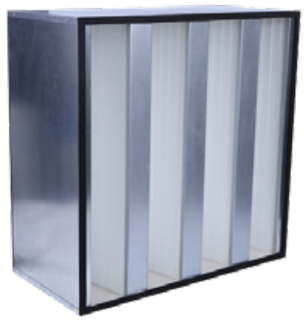
V-Bank High-Efficiency Filter

Product Features

V-Bank high-efficiency filters serve as secondary-stage filtration or pre-filters for cleanrooms requiring stringent air purity in HVAC systems. They enhance air quality while protecting downstream main/final filters. Widely deployed across: Industrial & commercial facilities Pharmaceutical & healthcare environments,Semiconductor & electronics manufacturing,Food processing plants,Animal husbandry operations.

1. Performance Advantages: High airflow capacity with low resistance,Exceptional dust-holding capacity,Heavy-load suitability for constant/variable airflow systems.
2. Standard thicknesses: 220mm, 250mm, 292mm, 305mm.Custom dimensions available.



Technical Index

Grade: M6, F7, F8, F9, H10, H11, H12, H13, H14; H15, H16, UH17, UH18, UH19
MERV11, MERV12, MERV13, MERV14, MERV15, MERV16-19.
Moisture resistance:100% RH
Heat-Resistant: 80°C

Filter object: ≥0.5μm，≥0.3μm、≥0.1μm
Filtration Efficiency: 67%、75%、85%、95%、99%、99.9%、99.99%、99.999(ASHRAE 52.1-1992)

Material characteristics

Filter media: Ultrafine glass fiber filter
Frame options: Galvanized steel, aluminum, stainless steel

Sealant: PU two-component polyurethane glue
Sealing Strip: EVA , EPDM , PU

Technical Parameter

Grade	Dimensions (mm) W*H* D	Media area(m^3)	Initial Resistance (Pa)	Final Resistance(Pa)	Wind Velocity Test (m/s)	Rated Air Flow(m^3/h)
F9	592*287*292/4V	7.40	125	250	2.5	1600
	592*592*292/4V	14.78				3200
	610*305*292/4V	8.25				1520
	610*305*292/5V	10.32				1680
	610*610*292/4V	16.50				3250
	610*610*292/5V	20.62				3400
H10	592*287*292/4V	7.64	150	450	2.5	1600
	592*592*292/4V	18.13				3200
	610*305*292/4V	9.89				1520
	610*305*292/5V	12.28				1680
	610*610*292/4V	19.12				3250
	610*610*292/5V	24.26				3400
H13	592*287*292/4V	7.64	300	500	2.5	1600
	592*592*292/4V	18.13				3200
	610*305*292/4V	9.89				1520
	610*305*292/5V	12.28				1680
	610*610*292/4V	19.12				3250
	610*610*292/5V	24.26				3400
H14	592*287*292/4V	7.64	320	500	2.5	1600
	592*592*292/4V	18.13				3200
	610*305*292/4V	9.89				1520
	610*305*292/5V	12.28				1680
	610*610*292/4V	19.12				3250
	610*610*292/5V	24.26				3400

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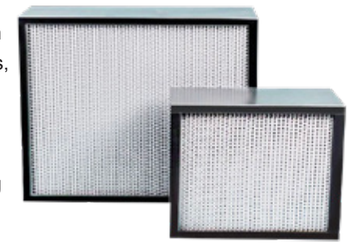
Deep Pleated Hepa Filters

Product Features

Used for primary filtration in cleanroom fresh air conditioning systems, terminal filtration at air supply outlets of dust-free workshops, and high-efficiency air supply outlets. Widely applied in electronics, optics, semiconductors, surface treatment, painting, chemical, biopharmaceuticals, hospitals, automotive industries, and more.

1. Low resistance, high dust-holding capacity, uniform air velocity distribution, high efficiency (primarily captures particles ≥0.3μm and ≥0.5μm).
2. Corrugated aluminum foil or paper separators precisely maintain pleat spacing, maximizing filter media utilization at minimal resistance: Aluminum foil thickness: 0.03mm Corrugation height: 4mm.Ensures optimal filter media area and product quality.
3. Thickness options (mm): 80, 96, 120, 150, 220, 292, 305. Custom sizes available.



Technical Index

Grade: Grade: M6, F7, F8, F9, H10,H13,H14
MERV11, MERV12, MERV13, MERV14, MERV15, MERV16-19
Moisture resistance:100% RH Heat-Resistant: 80°C

Filter object: ≥0.5μm，≥0.3μm
Filtration Efficiency: 99%, 99.9%, 99.999%, 99.9999%, 99.99999% (ASHRAE 52.1-1992)
Instantaneous Temperature Resistance: ≤100°C

Material characteristics

Filter media: High-density paper made with ultra-fine glass fiber.
Frame: Galvanized steel, aluminum, or ABS plastic.

Sealant: PU two-component polyurethane glue.
Sealing Strip: Polyurethane foam EVA.
Separator: Double-glued corrugated paper (50°C) Aluminum foil (150°C)

Technical Parameter

Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance (Pa)	Rated Air Flow (m^3/h)	Media area(m^3)	Wind Velocity Test (m/s)
M6	320*320*150	90	300	450	2.59	1.2
M6	484*484*220	90	300	1700	9.46	2.0
M6	305*610*292	90	300	1700	10.52	2.5
M6	610*610*292	90	300	3400	21.25	2.5
F7	320*320*150	130	300	450	2.59	1.2
F7	484*484*220	130	300	1700	9.46	2.0
F7	305*610*292	130	300	1700	10.52	2.5
F7	610*610*292	130	300	3400	21.25	2.5
F8	320*320*150	140	300	450	2.59	1.2
F8	484*484*220	140	300	1700	9.46	2.0
F8	305*610*292	140	300	1700	10.52	2.5
F8	610*610*292	140	300	3400	21.25	2.5
F9	320*320*150	150	300	450	2.59	1.2
F9	484*484*220	150	300	1700	9.46	2.0
F9	305*610*292	150	300	1700	10.52	2.5
F9	610*610*292	150	300	3400	21.25	2.5
H10	320*320*150	180	400	450	2.59	1.2
H10	484*484*220	180	400	1700	9.46	2.0
H10	305*610*292	180	400	1700	10.52	2.5
H10	610*610*292	180	400	3400	21.25	2.5
H13	320*320*150	250	500	450	2.59	1.0
H13	484*484*220	250	500	1700	9.46	1.5
H13	305*610*292	250	500	1700	10.52	2.5
H13	610*610*292	250	500	3400	21.25	2.5
H14	320*320*150	280	500	450	2.59	1.0
H14	484*484*220	280	500	1700	9.46	1.5
H14	305*610*292	280	500	1700	10.52	2.5
H14	610*610*292	280	500	3400	21.25	2.5

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Mini-Pleat Hepa Air Filters

Product Features

Used for terminal filtration in cleanroom fresh air conditioning systems, air supply outlets of dust-free workshops, and as primary filtration for FFU (Fan Filter Unit) and other air purification equipment.

1. Compact size, low cost, stable performance, long service life.
2. Separator-free design reduces resistance, improves efficiency, and lowers operating costs.
3. Standard sizes (W×H×D mm): 610×610×50, 610×610×69, 610×610×90, Custom sizes available.
4. Efficient: 99.9995%@0.3μm, Super efficient: 99.99995%@0.3μm.
5. Applications: Food & beverage, healthcare, semiconductors, automotive, chemical industries; cleanrooms, laminar flow workstations, air showers, LSI/semiconductor manufacturing plants, electronics research centers, pharmaceutical laminar flow equipment, and other high-coverage HEPA environments.

Technical Index

Grade: H13, H14, U15, U16; UH17, UH18, UH19, UH20
MERV17, MERV18, MERV19, MERV20.
Moisture resistance:100% RH
Heat-Resistant: 80° C

Filter object: ≥0.5μm，≥0.3μm、≥0.1μm
Filtration Efficiency: 99%, 99.9%, 99.999%, 99.9999%, 99.99999% (ASHRAE 52.1-1992)
Instantaneous Temperature Resistance: ≤100°C

Material characteristics

Filter media: Ultrafine glass fibers or HE PP Paper
Frame options: Aluminum, stainless, and galvanized steel
Separator: Hot melt adhesive

Sealant: PU two-component polyurethane glue
Sealing Strip: Polyurethane foam EVA
Protective Mesh: Diamond-pattern painted metal mesh

Technical Parameter

Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance (Pa)	Rated Air Flow (m³/h)	Media area(m³)	Wind Velocity Test (m/s)
H13	610*610*50	110	250	450	7.61	0.35
H13	915*610*50	110	250	680	11.29	0.35
H13	610*610*69	100	200	600	9.89	0.45
H13	915*610*69	100	200	896	23.19	0.45
H13	1170*570*69	100	200	1080	25.21	0.45
H13	1220*610*100	85	180	1200	30.76	0.45
H13	1170*1170*100	85	180	2180	32.28	0.45
H14	610*610*50	115	250	450	7.61	0.35
H14	915*610*50	115	250	680	11.29	0.35
H14	610*610*69	110	230	600	9.89	0.45
H14	915*610*69	110	230	896	23.19	0.45
H14	1170*570*69	110	230	1080	25.21	0.45
H14	1220*610*100	90	180	1200	30.76	0.45
H14	1170*1170*100	90	180	2180	32.28	0.45
U15	610*610*50	145	300	450	7.61	0.35
U15	915*610*50	145	260	680	11.29	0.35
U15	610*610*69	130	260	600	9.89	0.45
U15	915*610*69	130	260	896	23.19	0.45
U15	1170*570*69	130	200	1080	25.21	0.45
U15	1220*610*100	100	200	1200	30.76	0.45
U15	1170*1170*100	100	200	2180	32.28	0.45
U16	610*610*50	158	350	450	7.61	0.35
U16	915*610*50	158	350	680	11.29	0.35
U16	610*610*69	148	400	600	9.89	0.45
U16	915*610*69	148	400	896	23.19	0.45
U16	1170*570*69	148	400	1080	25.21	0.45

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High-Temperature Pleated Hepa Filters

Product Features

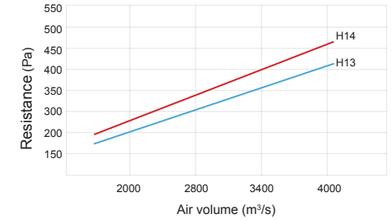
Designed for critical air purification in cleanroom HVAC systems, laminar flow terminal units, and high-fire-resistance/high-temperature ventilation systems, ideal for clean ovens, automotive coating systems, and other high-temperature air quality control applications.

1. High efficiency, low resistance, large dust-holding capacity, and exceptional high-temperature resistance.
2. Uses imported flexible sealing materials (replacing traditional ceramic adhesives) to prevent cracking, peeling, or leakage during thermal expansion.
3. Capturing a minimum of 99.97% of particles as small as 0.3 microns while enduring temperatures ranging from 250°C to 350°C and even higher.
4. Common dimensions: 610×610×150mm, 630×630×220mm, 915×610×150mm, 610×610×290mm (fully customizable) .
5. Widely applied in industries including microelectronics, optics, semiconductors, surface treatment, coating, chemical engineering, biopharmaceuticals, hospitals, and automotive manufacturing.

Technical Index

Filtration Grade:H10、H11、H12、H13、H14
Moisture resistance:100% RH
High temperature resistance:≤150°C、≤250°C
Filter object: ≥0.5μm，≥0.3μm
Filtration Efficiency: 99%、99.9%、99.99%、99.999(ASHRAE52.1-1992)

Air volume-resistance curve chart
610*610*292



Material characteristics

Filter Media:Ultrafine glass fiber filter
Frame Material:Aluminum profile / Stainless Steel / Galvanized frame
Separator:Aluminum foil

Sealing Adhesive:Imported flexible sealing material
Sealing Strip:High-temperature resistant sealing strip

Technical Parameter

Model	Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Media area(m³)	Wind Velocity Test (m/s)	Rated Air Flow (m³/h)
WS-250HT1	H13	610*610*120	190	7.04	0.56	750
WS-250HT2		610*610*292		21.04	1.64	2200
WS-250HT3		610*1220*292		45.5	1.66	4400
WS-250HT4	H14	610*610*120	220	7.04	0.56	750
WS-250HT5		610*610*292		21.04	1.64	2200
WS-250HT6		610*1220*292		45.5	1.66	4400

High-Temperature Pleated Hepa Filters

Product Features

Product Applications

1. Ovens requiring cleanliness standards
2. High-temperature equipment in specialized industries

Technical Index

Materials and Operating Conditions

Premium raw materials selected from top-tier sources, ensuring quality control from the origin.

Frame: 1.5mm 304 stainless steel

Filter media separator: Aluminum foil corrugated plate

Filter media: Special glass fiber filter paper

Sealant: Ceramic

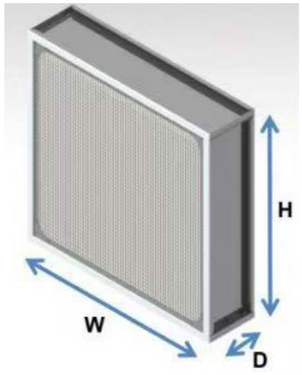
Seal gasket: Glass fiber (optional)

Filtration efficiency: H13 (EN1822) ≥99.97% at MPPS, ≥99.99% at 0.3μm

Continuous operating temperature: ≤350°C

Humidity resistance: ≤100% RH

Recommended maximum final resistance: ≤600 Pa



Technical Parameter

Model	Efficiency EN1822	Width(mm)	Height(mm)	Depth(mm)	Media area(m^3)	Initial Resistance (Pa)	Rated Air Flow (m^3/h)
WS-350HT1	H13	305	305	292	4.9	250	430
WS-350HT2	H13	305	610	150	5,4	250	580
WS-350HT3	H13	457	457	150	5.9	250	660
WS-350HT4	H13	305	610	292	10.4	250	980
WS-350HT5	H13	610	610	150	11.4	250	1280
WS-350HT6	H13	457	610	292	16.3	250	1510
WS-350HT7	H13	762	610	150	14.3	250	1610
WS-350HT8	H13	915	610	150	17.1	250	1929
WS-350HT9	H13	610	610	292	22.5	250	2050
WS-350HT10	H13	762	610	292	28.4	250	2650
WS-350HT11	H13	457	610	150	8.5	250	920
WS-350HT12	H13	762	457	150	10.6	250	1150
WS-350HT13	H13	762	457	292	20.9	250	1870

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Liquid tank Hepa Filters

Product Features

Used for final filtration in cleanroom fresh air conditioning systems and air supply outlets of dust-free workshops. Primarily applied in cleanroom terminal filtration for pharmaceuticals, hospitals, food hygiene, biological products, health products, etc. Its structural design enables large-scale, reliable, and rapid sealed installation of high-efficiency air filters, enhancing border strength. This is the internationally standard high-efficiency filter.

1. Excellent sealing performance, superior leak resistance, high efficiency, low resistance, low operating costs.
2. Channel sealant (blue/transparent): Non-volatile, non-bleeding, non-toxic, odorless, stable at room temperature.
3. Rigorous performance testing. Thickness options: 66mm, 80mm, 90mm, 93mm, 150mm, 220mm; Custom sizes available.

Technical Index

Filtration Grade: H13, H14, U15, U16, U17 (EN779)

Filtration Efficiency: 99%, 99.9%, 99.999%, 99.9999%, 99.99999% (ASHRAE 52.1-1992)

Moisture Resistance: 100% RH

Temperature Resistance: ≤80°C

Instantaneous Temperature Resistance: ≤100°C

Filter object: ≥0.5μm, ≥0.3μm, ≥0.1μm particles

Material characteristics

Filter Media: Ultra-fine glass fiber paper

Protective Mesh: Diamond-pattern metal painted mesh

Frame: Aluminum alloy frame

Channel Sealant: Imported liquid channel sealant

Separator: Hot melt adhesive

Sealant: PU two-component polyurethane glue

Technical Parameter

Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Rated Air Flow (m^3/h)	Media area(m^3)	Tank Direction
H14	346*346*69	≤190	300	2.80	Side
H14	510*510*69		650	6.32	Side
H14	636*636*69		1000	10.00	Side
H14	636*941*69		1500	14.84	Side
H14	596*1196*69		1800	17.63	Side
H14	636*1246*69		2000	19.68	Side
H14	346*346*90	≤220	500	4.40	Side
H14	510*510*90		1000	9.97	Side
H14	636*636*90		1500	15.77	Side
H14	636*941*90		2000	23.40	Side
H14	596*1196*90		2500	27.80	Side
H14	636*1246*90		3000	31.04	Side
H14	320*320*95	≤220	350	3.19	Top
H14	484*484*95		700	7.24	Top
H14	610*610*95		1100	11.45	Top
H14	610*1220*95		2200	22.55	Top

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Air Filter Media

Air Filter

Chemical Filter

Chemical Filter

Our Activated Carbon Filters deliver industrial-strength gas and odor elimination. Combining high-efficiency particulate filtration with deep molecular adsorption, they remove VOCs, formaldehyde, and toxic fumes where clean air matters most. Featuring reusable frames and customizable configurations, these filters provide sustainable protection for laboratories, manufacturing facilities, and commercial HVAC systems—turning hazardous air into trusted safety.

Activated Carbon Filter Media

Product Features

Mainly used in the air intake system and painting workshop of the spraying process with particularly strict requirements on air purification, spraying room; fine filtration of the air supply system of the paint room, coating equipment, coating system, and dust removal filtration of the painting workshop; secondary filtration of the air supply system in the high-quality spraying system and baking device; medium-efficiency flat filter material, which can be used in slices, slices framed, and whole rolls

1. It has high flame retardancy, high dust holding capacity, low resistance, elasticity, and stable performance;
2. Thickness(mm) :3,5,8,10,15
3. The air outlet is three-dimensional viscose, and the air outlet is PE imported netStandard 3.
4. Size (roll) (m):1.0 × 20,1.2 × 20,2.0 × 20

Technical Index

Filtration Grade:G3, G4

Moisture resistance:100% RH

Max Operating Temperature: 180℃

Filter object: Low concentrations of odors, foul smells, formaldehyde, benzene, ammonia, and other organic compounds.

Flame retardant level: F1, B1

Technical Parameter

Model	Filtering Grade	Benzene Adsorption	Thickness (mm)	Carbon Contend	Weight (g/m^2)	Max. Airflow (m^3/h)	Wind speed (m/s)	Initial Resistance (Pa)	Final Resistance (Pa)	Dust Trapping Rate	Gas Removal Rate	Flame resistance
WS-AC350G	G3	≥ 24Wt%	5±1mm	≥ 40%	350	5400	1.5	20	200	≥ 65%	≥ 65%	F-1DIN53438
WS-AC480G	G4	≥ 24Wt%	10±1mm	≥ 55%	480	5400	1.5	20	200	≥ 85%	≥ 85%	F-1DIN53438

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Activated Carbon Panel Filter

Product Features

Activated Carbon Panel Filters combines mechanical particulate filtration (panel/pleat design) with activated carbon adsorption for comprehensive air purification.

1. Dual-Action Filtration: Captures airborne particles and neutralizes VOCs, odors & toxic gases
2. Excellent filter media for panel filters, pocket filters, and more.
3. Structural stability, detachable design, replaceable filter media, reusable frame & skeleton
4. Applications:

Commercial or industrial settings: to remove noxious substances or odor.

HVAC systems: to maintain a healthier and more pleasant indoor environment.

Technical Index

Moisture Resistance: 100% RH

Heat Resistance: ≤80°C

Instantaneous Temperature Resistance: ≤120°C

Filter object: Low concentrations of odors, foul smells, formaldehyde, benzene, ammonia, and other organic compounds.

Material characteristics

Filter Media: Activated carbon filter cotton, carbon-sandwiched non-woven fabric, activated carbon fiber felt.

Frame options: Galvanized iron frame, aluminum alloy frame, stainless steel frame, cardboard frame

Protective Mesh: Galvanized mesh, aluminum mesh, stainless steel mesh, plastic-coated mesh

Detachable structure option available; reusable frame and protective mesh

Technical Parameter

Model	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Air Flow(m^3/h)	Velocity(m/s)
WS-PC01	595*495*8	2.16	2704	0.59
WS-PC02	595*595*8	3.69	3250	0.71
WS-PC03	592*287*10	1.89	1560	0.34
WS-PC04	592*490*10	2.28	2650	0.58
WS-PC05	592*592*10	1.10	3200	0.70
WS-PC06	592*287*21	2.78	1560	0.34
WS-PC07	592*490*21	3.36	2650	0.58
WS-PC08	592*592*21	1.63	3200	0.70

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Activated Carbon Pleat Panel Filter

Product Features

Activated Carbon Pleat Panel Filters combines mechanical particulate filtration (panel/pleat design) with activated carbon adsorption for comprehensive air purification.

1. Dual-Action Filtration: Captures airborne particles and neutralizes VOCs, odors & toxic gases
2. Enhanced Efficiency: Pleated structure maximizes surface area → higher particle retention + extended service life .
3. Low Operating Cost: Minimal initial pressure drop reduces energy consumption.
4. Structural stability, detachable design, replaceable filter media, reusable frame & skeleton*
5. Applications:

Typically used in HVAC systems to remove gaseous contaminants and airborne particles, creating a comfortable indoor environment

Most used industries: commercial buildings, pharmaceuticals, healthcare facilities, food process, education, etc.

Technical Index

Grade: G3, G4;

Moisture Resistance: 100% RH

Heat Resistance: ≤80°C

Adsorption Rate: ≥25%-35%

Filter object: Low concentrations of odors, foul smells, formaldehyde, benzene, ammonia, and other organic compounds.

Instantaneous Temperature Resistance: ≤120°C

Material characteristics

Filter Media: Activated carbon filter cotton, carbon-sandwiched non-woven fabric, activated carbon fiber felt.

Frame options: Galvanized steel, aluminum, and cardboard.

Protective Mesh: Galvanized mesh, aluminum mesh, stainless steel mesh, plastic-coated mesh.

Manufacturing Process:

Single-side mesh laminated pleating

Double-side mesh laminated pleating

Dragon skeleton frame pleating (primary-secondary structure)

Technical Parameter

Model	Filtration Grade	Dimensions (mm) W*H* D	Initial Resistance (Pa)	Final Resistance(Pa)	Rated Air Flow(m^3/h)
WS-PPC01	G3(EN799)	595*595*20	38	200	3000
WS-PPC02		595*595*96	42	200	3400
WS-PPC03		595*595*120	38	200	3400
WS-PPC11	G4(EN799)	595*595*20	45	260	2800
WS-PPC12		595*595*96	50	260	3400
WS-PPC13		595*595*120	45	260	3400

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Whalesens Technology Co., Ltd

Activated Carbon Pocket Filter

Product Features

Activated carbon bag filters are perfect for removing various odors, gases, and volatile organic compounds (VOCs) from the air.Activated carbon pocket filters consist of a robust bag or pocket-like structure, which has an immense surface area that readily adsorbs fumes and traps airborne contaminants.

1. Vast surface area, excellent adsorption efficiency, and adequate airflow.
2. Removes odors, volatile organic compounds (VOCs), chemicals, gases.
3. Standard sizes W x H x D(mm):592*592*600, 287*592*550, Customization Available.
4. Applications:

Typically used in HVAC systems to remove gaseous contaminants and airborne particles, creating a comfortable indoor environment

Most used industries: commercial buildings, pharmaceuticals, healthcare facilities, food process, education, etc.

Technical Index

Grade: G3, G4;
Moisture Resistance: 100% RH
Heat Resistance: ≤80°C
Adsorption Rate: ≥25%

Filter object: Low concentrations of odors, foul smells, formaldehyde, benzene, ammonia, and other organic compounds.
Instantaneous Temperature Resistance: ≤120°C

Material characteristics

Filter Media: Activated carbon filter cotton
Frame: Galvanized iron frame, aluminum alloy frame, stainless steel frame, plastic frame
Features:
Multi-bag design with high air throughput
Frameless option available
Reusable frames and support brackets

Technical Parameter

Model	Filtration Grade	Dimensions (mm) W*H* D	Pockets Quantity	Media area(m^3)	Final Resistance(Pa)	Rated Air Flow(m^3/h)
WS-BC01	G3(EN799)	287*592*550	3	1.86	65	1700
WS-BC02		490*592*550	5	3.12	65	2800
WS-BC03		592*592*600	6	3.78	65	3400
WS-BC10	G4(EN799)	287*592*600	3	2.12	80	2250
WS-BC11		490*592*600	5	3.66	80	3650
WS-BC12		592*592*600	6	4.40	80	4250

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V-Bank Activated Carbon Filter

Product Features

Excellent adsorption performance and gas dynamic properties. Widely applicable for purifying organic gases including toluene, xylene, benzene, naphthalenes, phenols, esters, alcohols, aldehydes, and malodorous gases.

1. Dual-Action Filtration: Captures airborne particles and neutralizes VOCs, odors & toxic gases
2. V-Type Modular Design: Maximizes airflow in limited cross-sectional spaces ,Simplified installation.
3. Structural variants by process/design: Plastic frame FV single-wire modular ,Metal frame FV single-flange modular ,Metal frame HV box-type modular
4. Applications:

Commercial buildings: used in commercial HVAC systems to eliminate odors from cooking, smoking areas, and chemical emissions.
Industrial Settings: manufacturing plants, refineries, and chemical processing facilities, to remove noxious fumes, chemical odors, and hazardous airborne contaminants.
Healthcare Facilities, pharmaceuticals, food Processing

Technical Index

Grade: G4, F5, F6
Moisture Resistance: 80% RH
Heat Resistance: ≤80°C
Adsorption Rate: ≥30%

Filter object: Low concentrations of odors, foul smells, formaldehyde, benzene, ammonia, and other organic compounds.
Instantaneous Temperature Resistance: ≤100°C

Material characteristics

Filter Media: Activated carbon, non-woven fabric
Adsorption Media: Premium granular activated carbon, spherical activated carbon, activated alumina balls, activated carbon cotton, etc.

Frame options: Plastic(ABS), Galvanized or stainless steel
Support Structure: Paper honeycomb, plastic honeycomb, metal housing.

Technical Parameter

Model	Dimensions (mm) W*H* D	Media area(m^3)	Initial Resistance (Pa)	Rated Air Flow(m^3/h)
WS-VC01	287*287*292/2V	4.58	75	750
WS-VC02	490*287*292/3V	8.13	75	1300
WS-VC03	592*287*292/4V	9.91	75	1600
WS-VC04	287*490*292/2V	6.87	75	1100
WS-VC05	490*490*292/3V	12.20	75	2000
WS-VC06	592*490*292/4V	14.87	75	2400
WS-VC07	287*592*292/2V	9.16	75	1650
WS-VC08	490*592*292/3V	16.26	75	2650
WS-VC09	592*592*292/4V	19.83	75	3400

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WHALESENS

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With the power of whales,guard the peace of every moment of breathing.

As an innovator in the air filter industry, Whalesens Technology has over 50 outstanding R&D personnel, a 3500m^2 advanced intelligent modern factory, and cutting-edge equipment in the industry. We have leading manufacturing capabilities and service support. Introducing advanced management systems from abroad and establishing an honest and comprehensive internal management system ensures that we conduct business in the best existing way, relying on innovation and technological leadership to provide customers with high-quality products, services, and solutions, and continuously allowing customers to experience our commitment to creating value for every customer.

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