GUANGDONG FRESH FILTER CO.,LTD

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Add: D4 Fenggong Area Nansha Village Danzao Town Nanhai , Foshan, Guangdong PR. China

Hotline: +86 400-627-1138 Fax: +86 757-8179 7681 Zipcode: 528223

Email: gzfresh@163.com/fiter@gd-fresh.com

Website: www.gzfresh.cn (official portal) / www.gd-fresh.com (official portal)

Product Catalogue | Cellphone website | Wechat Subscription | Wechat Portal

SERVICE CALL > +86(0)757-6684 8857

FRESH AIR FILTER®

Product Catalogue

Keep Improving Become a paragon

Fresh Filter- Specialist filter manufacturer for your specific needs.

Our Vision:
To be an Evergreen & Leading supplier in the industry

Our Mission:
To supply first class Filter Products all over the world

Our Value:
Openness, Share, Responsibility, Win-win

Fresh strives to offer excellent products and services to create better atmospheric environment for the world. Let's build a green planet!

Catalogue

Company Profile

FRESH Air filter

Guangdong Fresh Air Clean & Filtration Product Co.,Ltd (Known as Fresh Filter®) is a leading edge manufacturing company specialized in Air purification field since 2007, the company has developed to a multi-role business entity incorporated with product R&D, manufacture, sales and after sales services.

With more than 8 years constant investments in reaching technical breakthroughs, Fresh Filter has developed inflaming retarding multifunctional ceiling filters which meet EU standards and codes, Fresh Filter® also developed diverse EU standard filter products such as pre-filter, medium efficiency filter, HEPA filter, activated carbon cloth and filter products series, fiber glass(LH/PA), pocket filter, HEPA combined filter as well as medium efficiency filter panels. Fresh Filter®products are widely applied in coating production line, automobile, furniture coating booth, high-tech, electronic workshop, surgery operation ward and laboratories.

With a geographical transport network convenience in Danzao,Nanhai Foshan, where close to major Pearl River Delta deep sea ports, Fresh Filter has been expanding solid business connections to global clients from United States, Switzerland, Japan, Netherlands, Poland, Latvia, Serbia ,South Africa, Singapore, Israel, Malaysia, Philippines, UAE, and etc. In domestic market, we have sales footprint among 23 provinces, 4 major mega cities, and 5 municipalities.

In the future, Fresh Filter® will strive to the vision "to build a cleaner world" .
With market demand driven concept and enhanced entrepreneur spirits to develop and deliver core technic centralized products to worldwide customers. A new era is on its way for Fresh Filter® to grow new business together with our global and domestic Clients/partners.

Create a **clean world** !

Qualification

Quality policy

Excellent Quality

Achieved from every step of strict process control.

Quality is our outstanding strength, to ensure every product to meet codes and standards, we have improved complete procedures of quality scheme; from procurement to final packaging, All Fresh Filter Products will be checked through different testing procedures.

We have finalized guidebooks and instructions to every work station within Fresh workshops to ensure sufficient labor training, efficiency to maintain product quality.

FILTER MEDIA Product Series

- FRS-20KX Primary Filter Media
- Medium Efficiency Filter Media, Ceiling filter media for spraying booth
- Fiberglass Floor Filter, Paint Stop Filter, Floor filter
- HC series static electricity filtration material
- Filter media in Rail transit/Metro air conditioning system
- BX series high temperature resistant glass fiber flame retardant filter media
- Synthetic fiber high temperature resistant flame retardant filter cotton
- V type Filter paper
- Multi-layer grid paint mist filter paper

The application of air filter media(cotton) is very wide, Air filter media or mesh, is normally made of Polyester fiber or (abbr. as PET), PET is made by polyethylene glycol terephthalate, or synthetic fibre/ polyester fibre , with excellent wrinkle resistance, flexibility and dimensional stability. The material offers excellent insulativity , light resistance, wear resistance and humanity resistance, chemical-wise, with perfect chemical reaction resistance, weak acid and weak alkali resistance.

Many Industrial products must be produced in a clean room atmosphere, such as surface treatment, spraying, electronic, optical electron, pharmacy, food, air cooling industries. All those fabrication process will need airflow however no dust is allowed, therefore air filters must be deployed to filter all the dust to keep dustless airflow to meet manufacture air quality standard. The filter efficiency is decided by the porosity of the filter material, technically, if the porosity is sufficiently small more dust/particles will be arrested within the filter material.

The primary filter media is intended for new air filtration, to filter particles ≤ 5μm, with big dust holding capacity but limited windage, cost effective and inexpensive, The medium filter media is applied in spraying industries with ability to filter particles in between 1~10μm, the filter products designed for spraying heads to improve the spray paint room air quality.

High temperature resistant and flame retardant fiber glass are made of heat resistant/fire retardant material and mostly used in high temperature working condition.

According to Chinese filter grade (GB/T14295) also EU standards, from primary/medium/Hepa filter are ranked from G1, G2, G3, G4, F5, F6, F7 and F8.

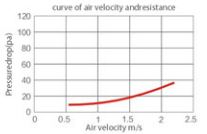
FRS-20/FRS-20KX Primary Filter Media

- Water-proof
- Low resistance
- Flexibility
- Economic

Application

Suitable for all kinds of ventilation equipment, dedusting equipment, air supply system.

1. Dust removal in air conditioning and air ventilation system.
2. Various dust removal for electromechanical and machine rooms.
3. Pre filter for high quality spraying system and air supply system in baking device.
4. Primary filter media for producing air filter.
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade:
G2(EN779)、EU2(EUROVENT)

Inflaming retarding grade:
F1(DIN 53438)

Humidity:
≤100%RH

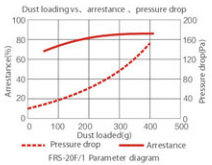
Filter particles:
≥5μm

Final pressure:
250Pa (suggested)

Temperature:
≤100℃ maximum in continue service

Average arrestance:
≥75%
(ASHRAE52.1-1992)

Dust holding capacity:
400g/m²



FRS-20F/1 Parameter diagram

Material & Features

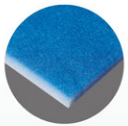
- Progressively built up thermal bonded by elastic and resistant polyester fibre.
- Can be reused after flapping, washing and blowing of glue spraying treated ones.
- With better resistance to corrosion of general solvent, weak acid and Weak base.

Technical Specification

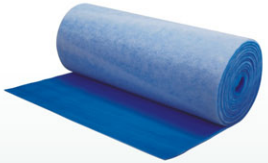
Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-20/FRS-20KX	20	1 / 2	10±2	2.0	≤30	7200

Remark: Other specifications can be customized

FRS-30 Primary Filter Media



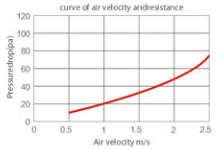
- Washable
- Low resistance
- High dust holding capacity
- Flexibility
- Economic



Application

Suitable for all kinds of ventilation equipment, dedusting equipment, air supply system.

1. Dust removing in air conditioning and air ventilation system.
2. Protect all kinds of electromechanical and machine room via filter.
3. Pre filter for high quality spraying system and air supply system in baking device.
4. Primary filter media for making air filter.
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade: G3(EN779)、EU3(EUROVENT)

Inflaming retarding grade: F1(DIN 53438)

Humidity: ≤100%RH

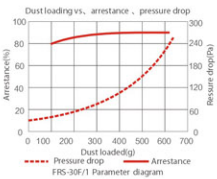
Filter particles: ≥5 μm

Final pressure: 250Pa (suggested)

Temperature: ≤100℃ maximum in continue service

Average arrestance: ≥85% (ASHRAE52.1-1992)

Dust holding capacity: 500g/㎡



FRS-30F/1 Parameter diagram

Material & Features

- Progressively built up thermal bonded by elastic and resistant polyester fibre.
- Multiple times of use- Filter media with glue can be washable, or remove dust and reuse by flapping and blowback.
- With better resistance to corrosion of general solvent, weak acid and Weak base.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-30	20	1 / 2	15±2	1.5	≤30	5400

Remark: Other specifications can be customized

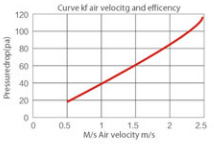
FRS-40/FRS-40KX Primary Filter Media

- Water-proof
- Low resistance
- Flexibility
- Economic

Application

Suitable for all kinds of ventilation equipment, dedusting equipment, air supply system.

1. Dust removing in air conditioning and air ventilation system.
2. Protect all kinds of electromechanical and machine room via filter.
3. Pre filter for high quality spraying system and air supply system in baking device.
4. Primary filter media for making air filter.
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade: G4(EN779)、EU4(EUROVENT)

Inflaming retarding grade: F1(DIN 53438)

Humidity: ≤100%RH

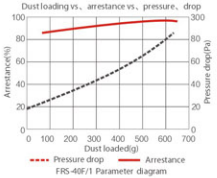
Filter particles: ≥5 μm

Final pressure: 250Pa (suggested)

Temperature: ≤100℃ maximum in continue service

Average arrestance: ≥95% (ASHRAE52.1-1992)

Dust holding capacity: 600g/㎡



FRS-40F/1 Parameter diagram

Material & Features

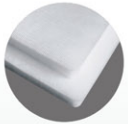
- Progressively built up thermal bonded by elastic and resistant polyester fibre.
- Filter media with glue can be washable, or dust removable and reuse by flapping and blowback.
- With certain corrosion resistance effect for general solvents, weak acid and weak base.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-40/FRS-40KX	20	1 / 2	20±2	1.0	≤30	3600

Remark: Other specifications can be customized

FRS-560G Medium Filter Media/ Ceiling Filter For Spray Booth

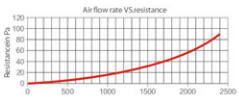


- Low resistance
- Flexibility
- High dust holding capacity
- Air outlet side pasted with cloth or mesh

Application

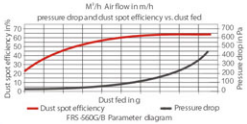
Mainly use for air intake system and painting workshops which are strict with spraying technology.

1. Filtering micro particles in spray booth air inflow system.
2. Dust removal in Painting equipment, painting system and painting workshop.
3. Secondary filtering in high-quality painting system and air intake system of baking equipment.
4. Medium filter media for producing air filter.
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade: F5/M5(EN779)、EU5(EUROVENT)	Inflaming retarding grade: F1(DIN 53438)	Humidity: ≤ 100%RH
Filter particles: ≥ 1 μ m	Final pressure: 400Pa (suggested)	Temperature: ≤ 100℃ maximum in continue service
Average arrestance: ≥ 95% (ASHRAE52.1-1992)	Dust holding capacity: 500g/m²	Instantaneous temperature resistance: ≤ 120℃



FRS-560G/B Parameter diagram

Material & Features

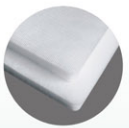
- Hot-blast air fusion technology with elastic and tenacious fiber combed to form compact filter structure.
- Air intake side surface fiber treated with sticky glue, improving the capture of the particles adhesion.
- Air outlet side pasted with cloth or mesh, in order to ensure the strength and effect of airflow uniformity.
- With better resistance to corrosion of general solvent, weak acid and Weak base.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-560G	14 / 21	1.6 / 2	22±2	0.3	≤45	1080

Remark: Other specifications can be customized

FRS-600G Medium Filter Media/ Ceiling Filter For Spray Booth

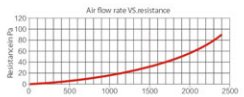


- Low resistance
- Flexibility
- High dust holding capacity
- Air outlet side pasted with cloth or mesh

Application

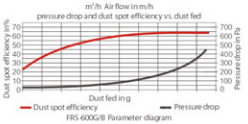
Mainly use for air intake system and painting workshops which are strict with spraying technology.

1. Filtering micro particles in spray booth air inflow system.
2. Dust removal in Painting equipment, painting system and painting workshop.
3. Secondary filtering in high-quality painting system and air intake system of baking equipment.
4. Medium filter media for producing air filter.
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade: F5/M5(EN779)、EU5(EUROVENT)	Inflaming retarding grade: F1(DIN 53438)	Humidity: ≤ 100%RH
Filter particles: ≥ 1 μ m	Final pressure: 400Pa (suggested)	Temperature: ≤ 100℃ maximum in continue service
Average arrestance: ≥ 98% (ASHRAE52.1-1992)	Dust holding capacity: 600g/m²	Instantaneous temperature resistance: ≤ 120℃



FRS 600G/B Parameter diagram

Material & Features

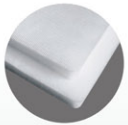
- Hot-blast air fusion technology with elastic and tenacious fiber combed to form compact filter structure.
- Every fiber was treated with sticky glue, improving the longer adhesive capacity of collected particles, in order to meet the coating technique in the strict quality requirements.
- Air outlet side pasted with cloth or mesh, in order to ensure the strength and effect of air uniformity.
- With better resistance to corrosion of general solvent, weak acid and Weak alkaline.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-600G	14 / 21	1.6 / 2	22±2	0.25	≤45	900

Remark: Other specifications can be customized

FRS-680G Medium Filter Media/ Ceiling Filter For Spray Booth

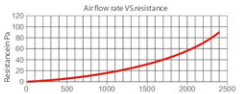


- Low resistance
- Flexibility
- High dust holding capacity
- Air outlet side pasted with cloth or mesh

Application

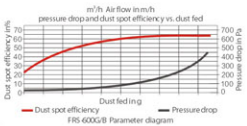
Mainly use for air intake system and painting workshops which are strict with spraying technology.

1. Filtering micro particles in spray booth air inflow system.
2. Dust removal in Painting equipment, painting system and painting workshop.
3. Secondary filtering in high-quality painting system and air intake system of baking equipment.
4. Medium filter media for producing air filter.
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade: F6/M6(EN779)、EU6(EUROVENT)	Inflaming retarding grade: F1(DIN 53438)	Humidity: ≤ 100%RH
Filter particles: ≥ 1 μ m	Final pressure: 400Pa (suggested)	Temperature: ≤ 100℃ maximum in continue service
Average arrestance: ≥ 99% (ASHRAE52.1-1992)	Dust holding capacity: 650g/㎡	Instantaneous temperature resistance: ≤ 120℃



Material & Features

- Hot-blast air fusion technology with elastic and tenacious fiber combed to form compact filter structure.
- Every fiber was treated with sticky glue, improving the longer adhesive capacity of collected particles, in order to meet the coating technique in the strict quality requirements.
- Air outlet side pasted with cloth or mesh, in order to ensure the strength and effect of air uniformity.
- With better resistance to corrosion of general solvent, weak acid and Weak alkaline.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-680	14 / 21	1.6 / 2	22±2	0.25	≤45	900

Remark: Other specifications can be customized

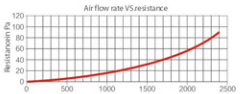
FRS-600G/ZR Medium Efficiency Filter Media With Flame Retardant, Ceiling Filter With Flame Retardant

- Low resistance
- Good smog filtration performance
- Easy to identify front and back side
- Flexibility
- Economic

Application

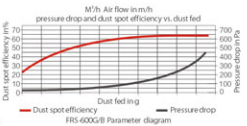
Mainly use for air intake system and painting workshops which are strict with spraying technology.

1. Filtering micro particles in spray booth air inflow system.
2. Dust removal in Painting equipment, painting system and painting workshop.
3. Secondary filtering in high-quality painting system and air intake system of baking equipment.
4. Medium filter media for producing air filter.
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade: F5/M5(EN779)、EU5(EUROVENT)	Inflaming retarding grade: S2(DIN 53438)、V-0(UL94 HB)	Humidity: ≤ 100%RH
Filter particles: ≥ 1 μ m	Final pressure: 400Pa (suggested)	Temperature: ≤ 100℃ maximum in continue service
Average arrestance: ≥ 98% (ASHRAE52.1-1992)	Dust holding capacity: 600g/㎡	Instantaneous temperature resistance: ≤ 120℃



Material & Features

- Hot-blast air fusion technology with elastic and tenacious fiber combed to form compact filter structure.
- Every fiber was treated with sticky glue, improving the longer adhesive capacity of collected particles, in order to meet the coating technique in the strict quality requirements.
- Air outlet side pasted with cloth or mesh, in order to ensure the strength and effect of air uniformity.
- With better resistance to corrosion of general solvent, weak acid and Weak alkaline.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-600G/ZR	14 / 21	1.6 / 2	22±2	0.25	≤45	900

Remark: Other specifications can be customized

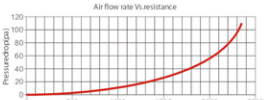
PA-50/PA-75/PA-100 Fiberglass Floor Filter, Paint Stop Filter Media

- Low resistance
- Good smog filtration performance
- Easy to identify front and back side
- Flexibility
- Economic

Application

Mainly used for paint mist emissions of painting system or industrial oil mist emissions, and it can be also used for pre filter of general ventilation.

1. Exhaust gas filtering and paint mist collection in spray booth exhaust system.
2. Exhaust gas filtering and paint mist collection in painting equipment, painting system, and painting workshop.
3. Industrial oil mist emissions and paint mist collection.
4. Filter media for paint stop air filter and primary air filter.
5. Pre-filtering for paint mist and oil mist type exhaust gas purification device.
6. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter grade: G3(EN779)、EU3(EUROVENT)	Filter particles: Paint mist, Oil mist, Dust particles	Average arrestance: PA-50 ⩾90%、PA-75 ⩾95%、PA-100 ⩾98%	Inflaming retarding class: F1(DIN 53438)
Final pressure: 200Pa (suggested)	Humidity: ⩽100%RH	Temperature: ⩽170℃ maximum in continue service	

Material & Features

- Using fluffy fiber glass material with Progressive structure, air inlet side is green, which is fluffy. The density of fiber increase gradually from inlet side (green) to outlet side (white). With this special structure, it can prevent surface material from being blocked too soon, meanwhile providing best effect of filtering and holding the paint.
- Good elasticity fiber glass, no transformation even under the condition of pressure, therefore all the space can be made good use for collecting paint mist.
- With better resistance to corrosion, all kind of solvent, acid-base and high temperature.

Technical Specification

Model	Dimensions			Weight (g/m²)	Rated air velocity (m/s)	Initial air flow (m³/h)	Initial pressure (Pa)	Average arrestance	Paint capacity (g/m²)
	Length(m)	Width(m)	Thickness(mm)						
PA-50	20	0.8/1.2	50–60	250	2.0	7200	≤30	≥90%	> 3500
PA-75	20	0.8/1.2	70–80	300	1.75	6300	≤40	≥95%	> 4000
PA-100	20	0.8/1.2	90–100	350	1.5	4500	≤50	≥98%	> 4500

Remark: Other specifications can be customized

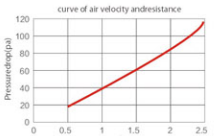
HC series static electricity filtration material

- With static electricity
- Low pressure drop & high efficiency
- Wide Application

Application

Mainly used for air filters production.

1. Perfect material for panel filter, folded filter and bag filter.
2. Fore stage filtration of precision filter.
3. Can be customized in pad/pad with frame/roll.



Technical Parameters

Inflaming retarding class: F1(DIN 53438)、B1(GB/T 17591-2006)	Humidity: ⩽100%RH	Temperature: ⩽100℃ maximum in continue service	instantaneous temperature resistance: ⩽120℃

Material & Features

- Hot-blast air fusion technology with elastic and tenacious fiber combed to form compact filter structure so it can capture the fine dust particles more easily because of the unique static function.
- Air outlet surface by high temperature treatment, providing better efficiency and strength.
- With better resistance to corrosion of general solvent, weak acid and Weak base.

Technical Specification

Model	Class	Dimensions			Filter Particles μm	Filter accuracy (%)	Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
		Length(m)	Width(m)	Thickness(mm)					
HC-150	G3	50	1/2	4±1	⩾5	85%	2	⩽50	7200
HC-200	G4	50	1/2	5±1		95%	1.5		5400
HC-240	F5/M5	50	1/2	6±1		45%			3600
HC-280	F6/M6	50	1/2	7±1	⩾1	65%	1	⩽80	3600
HC-320	F7	50	1/2	8±1		85%			3600

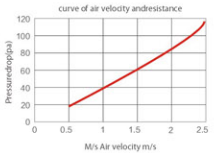
Remark: Other specifications can be customized

Filter media in Rail transit/Metro air conditioning system

Application

Mainly used for rail transit air/metro conditioning system, such as subway, train as well as bullet train.

1. Air intake filtration of the train.
2. Filter of air supply system in air conditioning of the train.
3. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filter class:	Filter particles:	Average arrestance:	Inflaming retarding class:	Smoking Class:	Flame drip lever:
G3、G4(EN779)、EU3、EU4(EUROVENT)	≥5μm	≥85%、95% (ASHRAE52.1-1992)	S4(DIN 5510-2)	SR2(DIN 5510-2)	ST2(DIN 5510-2)

oxygen index:	Smoke density:	Humidity:	Temperature:	Instantaneous temperature resistance:
≥32(TB/T3237)	≤200(TB/T3237)	≤100%RH	≤100℃ maximum in continue service	≤120℃

Material & Features

- Hot-blast air fusion technology with elastic and tenacious fiber combed to form compact filter.
- Double-sided spray and secondary flame retardant treatment, with better flexibility and strength, and better flame retardant effect.
- With better resistance to corrosion, all kind of solvent, acid-base and high temperature.

Technical Specification

Model	Dimensions			Rated air velocity (m/s)	Initial pressure (Pa)	Initial air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)			
FRS-1605	50	2	5.5±1.5	2.5	≤40	7200
FRS-2210	50	2	11±2			

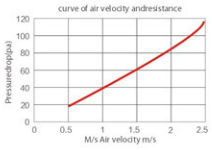
Remark: Other specifications can be customized

BX series high temperature resistant glass fiber flame retardant filter media

Application

All kinds of high temperature, fire-proof environment ventilation equipment, dust removal equipment, as well as air supply system.

1. High temperature drying room, drying tunnel ,oven, baking room, coating equipment air filtration of high temperature equipment.
2. All kinds of high temperature mechanical and electrical equipment, room and other equipment protective dust filtration.
3. Ventilation systems for high fire-proof protection requirements.
4. High temperature exhaust gas emission filtration.
5. High temperature resistant filter material.
6. Can be customized in pad/pad with frame/roll.



Technical Parameters

Filtration Grade:	Filter objects:	Flame retardant grade :	Final resistance :
G2、G3、G4、F5(EN779)、EU2、EU3、EU4、EU5(EUROVENT)	≥5m thick dust and foreign bodies, ≥1μm particles	Grade A (GBB624)	250pa(recommended)

Humidity:	Temperature:	Instantaneous temperature :
≤100%RH	≤300℃ maximum in continue service	≤350℃

Material & Features

- Two types of thin dense and thick fluffy models.
- The glass fiber is used as a non-woven fabric and the air outlet surface is specially treated to solve fiber loss conditions.
- The utility model can be used for 300 DEG C for a long time without aging with excellent dimensional stability.
- Excellent flame retardant feature ,with no fire insoluble droplets , no carbon accumulation, no shrinkage and no deformation.
- Good chemical resistance and alkali corrosion resistance ,moisture resistance ,low moisture absorption and long service life.

Technical Specification

Model	Dimensions			Filtering accuracy μm	Filter efficiency (%)	Rates air velocity (m/s)	Initial pressure drop (Pa)	Rated air flow (m³/h)
	Length(m)	Width(m)	Thickness(mm)					
BX-150	200	1.3	1.5	≥1	65%	1	≤80	3600
BX-250	20	1/1.3	20±2	≥5	75%	2	≤50	7200
BX-300					85%	1.5		5400
BX-350					95%	1		3600
BX-400					98%	1		3600

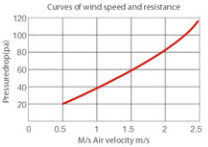
Remark: Other specifications can be customized

Synthetic fiber high temperature resistant flame retardant filter media

Application

All kinds of high temperature, fire-proof environment ventilation equipment, dust removal equipment, as well as air supply system.

1. High temperature drying room, drying tunnel ,oven, baking room, coating equipment air filtration of high temperature equipment
2. All kinds of high temperature mechanical and electrical equipment, room and other equipment protective dust filtration
3. Ventilation systems for high fire protection requirements
4. High temperature exhaust gas emission filtration
5. High temperature resistant filter material



Technical Parameters

Filter particles:	Average weight efficiency:	Flame retardant grade：	Final resistance：	Humidity tolerance (relative humidity):
≥5m thick dust and foreign bodies	≥90% (ASHRAE52.1-1992)	Product standard reached highest class of 3 subject to Japanese JACA No.11A-2003	250pa(recommended)	≤100%RH

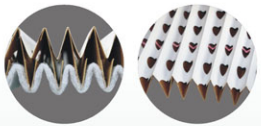
Material & Features

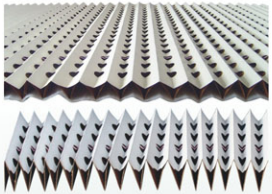
- Hot-blast air fusion technology with elastic and tenacious fiber (Aromatic Polyamide) combed to form compact filter structure with mesh.
- It offers good corrosion resistance to various ,resistance to various solvents, acid and resistance ,high temperature resistance and excellent flame retardant , with no fire insoluble droplets.
- Good chemical resistance and alkali corrosion resistance ,moisture resistance ,low moisture absorption and long service life.

Technical Specification

Model	Dimensions			Temperature resistance	(m/s) Rates air velocity	(Pa) Initial pressure drop	Average filtration efficiency
	Length(m)	Width(m)	Thickness(mm)				
RF200	500	500	23	≤240	1	≤25	90%
	800	800	23				

V type Filter paper

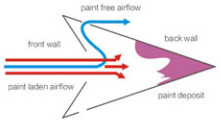




Application

Painting/coating industry exhaust gas emission purification and filtration

1. Applicable in various industries. Capture of spray paint particles or dust particles, reduce air pollution, maintain a friendly working environment, reduce gas emissions to the environment.
2. Used as exhaust gas purification system.
3. Arbitrarily customized cut or framed ,or solely used as filter or used in one whole piece.

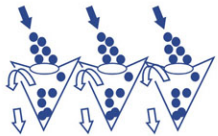


Technical Parameters

The V type design filter paper pockets offers 2~5 times better filtration performance compared to ordinary stretching filter media or fiber glass filter media.

Filter objects:	Stretch break:	Flame retardant grade:	Wet tolerance (relative humidity:	Aperture:
paint particles and dust particles	50mm	K1(DIN 53438)	≤ 80%RH	25mm

Hole distance:	Final resistance :	Temperature:	Instantaneous temperature :
20mm	150Pa (recommended)	≤ 100℃ maximum in continue service	≤ 120℃



Material & Features

- Low air flow resistance , maximum filtration effect, high dust holding capacity.
- High-quality double brown packing paper made, rigid adhesion and durable.
- Less equipment investment , noise-proof and easy installation.
- Long operation time & cost ; no frequent replacement required, usually 240-500hours operation time without any issues.
- Simple paint mist particles and powder recycling process, with no secondary pollution.
- Both Horizontal (downward suction type) or vertical (side suction type) operational.
- Better filtration performance when combined with filter cotton media.

Material & Features

Model	Dimensions			Filter efficiency (%)	Rates air velocity (m/s)	Initial pressure drop (Pa)	Paint load (Kg/m²)
	Length(m)	Width(m)	Bend height(mm)				
V-60	10	0.75	60	≥ 85% with cotton≥ 98%	1	≤50 with cotton≤70	12
		0.9					
		1					
		1.2					
V-65	10	1.25	65				

Multi-layer grid paint mist filter paper

Application

Mainly used in furniture ,power machinery ,port machinery, marine equipment, construction machinery, anti-rust coating machinery, automobile plant, bicycle plant, household appliances, electronic coating ,coating factory, painting booth room, painting room, as well as surface coating industry, products designed for spraying heads to improve the spray paint room air quality .

Principle and Features

- The product is designed on the principle basis of the influence from air pressure onto airflow ,during paint mist under the air pressure in the spraying booth or painting room, ,the air flow penetrate the multiple layers of mesh over the filter papers ,the multiple layers of filter papers will be spread out by the pressure , similar to a multilayer mesh that prevents the flow of paint mist ,which effectively absorbs the paint and dust in the air. The product is a very necessary filter material which is used for the dry paint spraying booth and its function is to control the air pollution in the spray painting operations.

- High efficiency ,fire retardant ,antistatic and less resistance loss, the product avoid any secondary pollution, simple replacement, work place cleanliness ensured and cost-effective.

- Similar performance to imported Brand such as JISEITAI , KAISHALTD.

- Suitable for manual spraying, electrostatic spraying, high-pressure airless spraying tools, nitrocellulose lacquer, amino lacquer, epoxy resin, acrylic resin, alkyd antirust lacquer marine protection and other kinds of primer paint.

Technical Specification

Specifications: W 1m* L 10m /roll , or any other customized dimension :500*500mm,600*600mm,800*800mm for instance.

Model	Air resistance	Dimensions(mm)	Layer number	Air Speed	Filter efficiency(up to)	Feature
GF-666 (Brown)	< 20mm water column	500*500mm 600*600mm 800*800mm 1*10mm 1*2mm	5/6/7/8/9/10Floor (The bottom can be attached cotton)	0.6~1m/s	>96%	Not flame retardant
GF-663 (Brown)						
GF-664 (Brown)						
GF-767 (white)						Inflaming retarding

Remark: Other specifications can be customized

AIR FILTERS Product Series

> Primary air filter

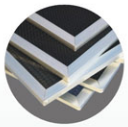
> Medium efficiency filter

> High efficiency (HEPA) filter

Air filter refers to air purification device, normally panel filters, folded filters, pocket filters, even combined air filters, mostly air filters are used in clean room, clean workshop, laboratories as well as surgery wards.

Air filters are categorized by its filtration precision, primary filters are designed to filter particles ⩾5 μ m, Medium efficiency filters are capable of filtering particles ⩾1 μ m, while high efficiency filters are designed to filter particles ⩾0.3 μ m, usually the filters are used in ambient, humidity, weak acid/alkali working condition, industry-wise, the air filters are used in surface treatment, spraying, electronics, aerospace, aviation, pharmacy, and biotech industries.

Nylon mesh pre-filter

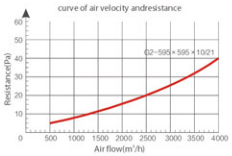


- Acid/Alkali resistible
- Washable
- Large ventilation, low resistance
- High temp resistible and damp-proof

Application

Pre-filter and foreign material filtration ,commercial and industrial ventilation systems.

1. Used for clean room conditioning system, pre-filtration through fresh air venting units, and exterior air conditioning connection.
2. The pre-filtration of central air-conditioning system and clean room air inlet pre-filtration.
3. Pre-filtration at the inlet of Air purification equipment.
4. Air conditioning airflow distribution filtration.
5. Primary filtration in a filtration system.



Technical Parameters

Filter object :
more than 10 μ m
pre-filtration of particles

Wet tolerance (relative humidity):
≤ 100%RH

Temperature:
≤ 100℃ maximum in
continue service

Instantaneous temperature :
≤ 120℃

Material & Features

- Filter media :PPPA,PE and other materials for monofilament woven nylon mesh.
- Inner support frame : galvanized steel and stainless steel wire.
- Frame: Aluminum Alloy frame/stainless steel frame/non-woven fabric wrapping.
- Large ventilation capacity. Low airflow resistance, washable, reusable, long life span in humid working condition.
- Certain corrosion resistance to general solvent, weak acid and weak alkali, to avoid prolonged exposure to ultraviolet light from the sun.

Technical Specification

Model	Dimensions			Rates air velocity (m/s)	Rated air flow (m³/h)	Initial pressure drop (Pa)
	H(mm)	W(mm)	T(mm)			
FRS-NL-7	595	595	7	2	2500	≤50
FRS-NL-10	595	595	10			
FRS-NL-15	595	595	15			
FRS-NL-21	595	595	21			
FRS-NL-25	595	595	25			
FRS-NL-46	595	595	46			

Remark: Other specifications can be customized

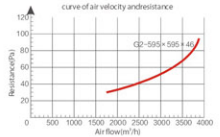
Metal mesh pre-filter

- Acid/Alkali resistible
- Low resistance
- Washable
- Solid structure

Application

Pre-filter and foreign material filtration ,commercial and industrial ventilation systems.

1. Used for clean room conditioning system, pre-filtration through fresh air venting units, and exterior air conditioning connection.
2. Primary filtration of central air conditioning system.
3. Pre-filtration at the intake of Air purification equipment.
4. Primary filtration in a filtration system.
5. Ventilation system for outdoor and other harsh environments.
6. Pre-filtration in Ventilation system for outdoor fire-proof and high temp resistance working condition.



Technical Parameters

Filter object :
more than 10 μ m
pre-filtration of particles

Wet tolerance (relative humidity):
≤ 100%RH

Temperature:
≤ 300℃ maximum in
continue service

Instantaneous temperature :
≤ 350℃

Material & Features

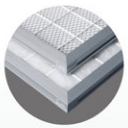
- Multiple layers of wavy alum mesh and stainless steel mesh.
- Frame: galvanized steel frame/aluminum frame/stainless steel frame.

Technical Specification

Model	Dimensions			Rates air velocity (m/s)	Rated air flow (m³/h)	Initial pressure drop (Pa)
	H(mm)	W(mm)	T(mm)			
FRS-JS-15	595	595	15	2	2500	≤50
FRS-JS-21	595	595	21			
FRS-JS-25	595	595	25			
FRS-JS-46	595	595	46			

Remark: Other specifications can be customized

Panel pre-filter

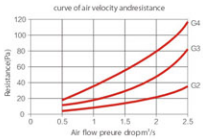


- Low resistance
- High Dust holding capacity
- Economic
- Washable

Application

Pre-filter and foreign material filtration in commercial and industrial ventilation systems.

1. Used for clean room conditioning system, pre-filtration through fresh air venting units, and exterior air conditioning connection.
2. Primary filtration of central air conditioning system.
3. Pre-filtration at the inlet of Air purification equipment.
4. Pre-filtration in a medium filter.
5. primary filtration or secondary filtration in a filter system.
6. Glass fiber plank pre-filter in Ventilation system for outdoor fire-proof and high temp resistance working condition.



Technical Parameters

Filter Grade:
G2、G3、G4(EN779)、EU2、EU3、EU4(EUROVENT)

Filter object:
particles ≥5 μ m

High temperature resistance:
Polyester fiber ≤100℃ ,glass fiber ≤300℃

Humid tolerance (relative humidity):
≤100%RH

Filtration efficiency :
75%、85%、95% (ASHRAE52.1-1992)

Instantaneous temperature :
Polyester fiber ≤120℃ ,glass fiber ≤350℃

Material & Features

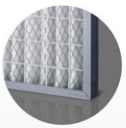
- Filter material :polyester fiber cotton ,polyester fiber filter cotton ,glass fiber filter cotton.
- Support structure: galvanized mesh. aluminum mesh ,stainless steel mesh ,spray plastic mesh.
- Outer Frame: galvanized steel frame ,Aluminum Alloy frame ,stainless steel frame.
- Customization: Can be customized with washable material, multiple use after washing.
  Can be customized with removable structure, outer frame and mesh can be multiple used.

Technical Specification

Model	Dimensions			Rates air velocity (m/s)	Rated air flow (m³/h)	Initial pressure drop (Pa)
	H(mm)	W(mm)	T(mm)			
FRS-PB-7	595	595	7	1	1200	≤50
FRS-PB-10	595	595	10			
FRS-PB-15	595	595	15			
FRS-PB-21	595	595	21			
FRS-PB-25	595	595	25			
FRS-PB-46	595	595	46			

Remark: Other specifications can be customized

Pleated pre-filter

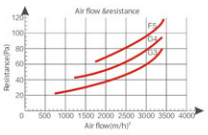


- Low resistance
- High dust holding capacity
- Economic
- Large filtration area

Application

Pre-filter and foreign material filtration in commercial and industrial ventilation systems.

1. Used for clean room conditioning system, pre-filtration through fresh air venting units, and exterior air conditioning connection.
2. Primary filtration of central air conditioning system.
3. Pre-filtration at the inlet of Air purification equipment.
4. Pre-filtration in a medium filter.
5. primary filtration or secondary filtration in a filter system.
6. Glass fiber plank pre-filter in Ventilation system for outdoor fire-proof and high temp resistance working condition.



Technical Parameters

Filter Grade:
G2、G3、G4(EN779)、EU2、EU3、EU4(EUROVENT)

Filter object:
particles ≥5 μ m

High temperature resistance:
polyester fiber is less than or equal to 100DEG C , glass fiber is less than or equal to 300℃

Humidity:
≤100%RH

Filtration efficiency :
75%、85%、95% (ASHRAE52.1-1992)

Instantaneous temperature :
polyester fiber is less than or equal to 120 DEG C , glass fiber is less than or equal to 350 ℃

Material & Features

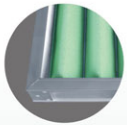
- Filter material :polyester fiber cotton ,polyester fiber filter cotton ,glass fiber filter cotton.
- Support structure: galvanized mesh. aluminum mesh ,stainless steel mesh ,spray plastic mesh.
- Outer Frame： galvanized steel frame/Aluminum Alloy frame/stainless steel frame/paper frame.

Technical Specification

Model	Dimensions			Pleats number	Air flow/Initial pressure drop	
	H(mm)	W(mm)	T(mm)		(m^3/h / Pa)	
FRS-ZDY-25	595	595	25	16	1700/20	3400/70
	290	595		8	850/20	1700/70
FRS-ZDY-46	595	595	46	16	1700/20	3400/70
	290	595		8	850/20	1700/70
FRS-ZDY-96	595	595	96	10	1700/20	3400/70
	290	595		5	850/20	1700/70

Remark: Other specifications can be customized

Washable pleated pre-filter

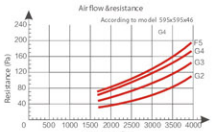


- Low resistance
- Economic
- High Dust holding capacity
- Washable

Application

Pre-filter and foreign material filtration in commercial and industrial ventilation systems.

1. Used for clean room conditioning system, pre-filtration through fresh air venting units, and exterior air conditioning connection.
2. Primary filtration of central air conditioning system.
3. Pre-filtration at the inlet of Air purification equipment.
4. Pre-filtration in a medium filter.
5. Primary filtration or secondary filtration in a filter system.



Technical Parameters

Filter Grade:
G2、G3、G4(EN779)、EU2、EU3、EU4(EUROVENT)

Filter object:
particles ⩾5 μ m

Filtration efficiency :
75%、85%、95%(ASHRAE52.1-1992)

Humidity:
⩽100%RH

Temperature:
⩽100℃ maximum in continue service

Instantaneous temperature :
⩽120℃

Material & Features

- Filter material :polyester fiber filter cotton ,non-woven fabric filter.
- Dual racking :galvanized steel ,paint sprayed steel ,stainless steel.
- Frame: Aluminum Alloy frame ,galvanized iron frame ,stainless steel frame.
- Features: Rigid structure and durable.
- Can be customized with washable media, multiple use after washing.
- Can be customized with removable structure, outer frame and racking can be multiple used.

Technical Specification

Model	Dimensions			Pleats number	Air flow/Initial pressure drop	
	H(mm)	W(mm)	T(mm)		(m^3/h / Pa)	
FRS-ZDK	595	595	46	11	1700/18	3400/68
	290	595	46	11	850/20	1700/70

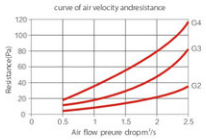
Remark: Other specifications can be customized

Primary pocket filter

Application

Pre-filter and foreign material filtration in commercial and industrial ventilation systems.

1. Used for clean room conditioning system, pre-filtration through fresh air venting units, and exterior air conditioning connection.
2. Primary filtration of central air conditioning system.
3. Pre-filtration at the inlet of Air purification equipment.
4. Pre-filtration in a medium filter.
5. Primary filtration or secondary filtration in a filter system.



Technical Parameters

Filter grade :
G2、G3、G4、(EN779)、EU2、EU3、EU4(EUROVENT)

Filter object:
particles ⩾5 μ m

Filtration efficiency :
75%、85%、95%(ASHRAE52.1-1992)

Humidity:
⩽100%RH

Temperature:
⩽100℃ maximum in continue service

Instantaneous temperature resistance :
⩽120℃

Material & Features

- Filter material :polyester fiber cotton , non-woven fabric filter.
- Outer Frame： galvanized steel frame ,Aluminum Alloy frame ,stainless steel frame or plastic frame.
- Multiple pocket design, high airflow rate.
- Customization: Can be customized with washable material, multiple use after washing.
  Can be customized with removable structure, outer frame and mesh can be multiple used.

Technical Specification

Model	Dimensions			Number of pockets	Blowing rate/Initial pressure drop	
	H(mm)	W(mm)	T(mm)		(m^3/h / Pa)	
FRS-CXD	592	592	600	6	3400/40	4200/60
	287	592	600	3	1700/40	2100/60

Remark: Other specifications can be customized

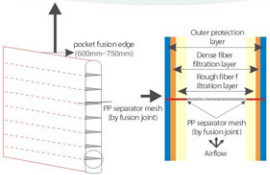
Non - woven fabrics medium pocket filter

- Good ventilation
- High dust holding capacity
- High filter efficiency
- Long life time

Application

Pre-filter and foreign material filtration in commercial and Industrial ventilation systems.

1. Clean room fresh air conditioning system ,the middle section of fresh air units.
2. Secondary or end filtration of central air conditioning system.
3. Main filter of air purifier.
4. Pre filter of high efficiency fiber.



Technical Parameters

Filter grade:
F5、F6、F7、
F8、F9(EN779)

Filter object :
particles ≥ 1 μ m

Instantaneous temperature resistance :
≤ 120℃

Filtration efficiency :
35%、45%、65%、85%、
95%(ASHRAE52.1-1992)

Temperature:
≤100℃ maximum in continue service

Humidity:
≤ 100%RH

Material & Features

- Filter media: multi- layer non-women fabric.
- Frame :galvanized iron frame ,Aluminum Alloy frame ,stainless steel frame or plastic frame.
- Features: Multi bag design ,large ventilation.
  - Ultrasonic high temperature fusion ,better air tightness.
  - Frame design customized, the frame and the supporting frame can be used repeatedly.

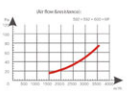
Efficiency	Material color	Application
95%	Yellow	Electronic factories, National defense industry, sterile room, sterile plant
85%	Pink	Petro-chemical industry, plastic industry, pharmacy industry, food industry, coating factory, electronic factory, hospitals, labs
65%	Green	Coating booth, schools, and computer rooms.
45%	Orange	Commercial buildings, theaters, train stations, aero stations
35%	White	Pre-filter of a medium efficiency filter

Technical Specification

Model	Dimensions			Number of pockets	Rated air flow/Initial pressure drop	
	H(mm)	W(mm)	D(mm)		(m^3/h / Pa)	
FRS-ZXDW	592	592	600	6	3400/40	4200/60
	287	592	600	3	1700/40	2100/60

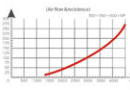
Remark: Other specifications can be customized

F5 Medium Efficiency Pocket Filter



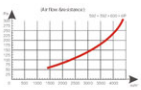
Model	Dimensions(mm) W (mm)	H (mm)	D (mm)	Number of pockets	Rated air flow/ initial pressure drop (m^3/h&Pa)	Filtration area	EN779	Filter material color
35%	592	592	600	6	2550/45 3400/55 4250/75	4.4	F5	White
	290	592	600	3	1250/45 1700/55 2100/75	2.2	F5	
	592	592	600	8	2550/40 3400/50 4250/70	5.6	F5	
	290	592	600	4	1250/50 1700/50 2100/75	2.8	F5	

F6 Medium Efficiency Pocket Filter



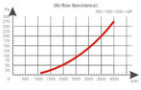
Model	Dimensions(mm) W (mm)	H (mm)	D (mm)	Number of pockets	Rated air flow/ initial pressure drop (m^3/h&Pa)	Filtration area	EN779	Filter material color
45%	592	592	600	6	2550/50 3400/60 4250/80	4.4	F6	Orange
	290	592	600	3	1250/50 1700/60 2100/80	2.2	F6	
	592	592	600	8	2550/45 3400/55 4250/75	5.6	F6	
	290	592	600	4	1250/45 1700/55 2100/75	2.8	F6	

F7 Medium Efficiency Pocket Filter



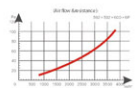
Model	Dimensions(mm) W (mm)	H (mm)	D (mm)	Number of pockets	Rated air flow/ initial pressure drop (m^3/h&Pa)	Filtration area	EN779	Filter material color
65%	592	592	600	6	2550/58 3400/70 4250/105	4.4	F7	Green
	290	592	600	3	1250/58 1700/70 2100/105	2.2	F7	
	592	592	600	8	2550/52 3400/62 4250/95	5.6	F7	
	290	592	600	4	1250/52 1700/60 2100/95	2.8	F7	

F8 Medium Efficiency Pocket Filter



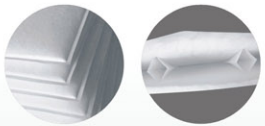
Model	Dimensions(mm) W (mm)	H (mm)	D (mm)	Number of pockets	Rated air flow/ initial pressure drop (m^3/h&Pa)	Filtration area	EN779	Filter material color
85%	592	592	600	6	2550/67 3400/90 4250/115	4.4	F8	Pink
	290	592	600	3	1250/67 1700/90 2100/115	2.2	F8	
	592	592	600	8	2550/60 3400/80 4250/100	5.6	F8	
	290	592	600	4	1250/60 1700/80 2100/100	2.8	F8	

F9 Medium Efficiency Pocket Filter



Model	Dimensions(mm) W (mm)	H (mm)	D (mm)	Number of pockets	Rated air flow/ initial pressure drop (m^3/h&Pa)	Filtration area	EN779	Filter material color
95%	592	592	600	6	2550/75 3600/126 5000/216	5.0	F9	Yellow
	290	592	600	3	1250/75 1800/127 2500/216	2.5	F9	
	592	592	600	8	2550/65 3400/50 4250/115	6.0	F9	
	290	592	600	4	1250/65 1700/50 2100/115	3.1	F9	

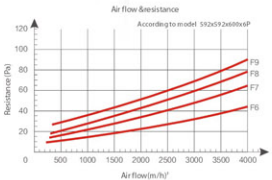
Medium synthetic fiber pock filter



Application

Mid-filter or end filter of foreign material filtration in commercial and Industrial ventilation/air conditioning systems.

1. Clean room fresh air conditioning system, mid-filter of fresh air unit.
2. Secondary or end filtration of central air conditioning system.
3. Main filter of Air purification equipment.
4. High efficiency filter pre filter.



Technical Parameters

Filter level: F5、F6、F7(EN779)	Filter object : particles ⩾ 1 μ m	Filtration efficiency : 45%、65%、85% (ASHRAE52.1-1992)
Humidity: ⩽100%RH	Temperature: ⩽100℃ maximum in continue service	Instantaneous temperature resistance : ⩽120℃

Material & Features

- Filter material: with flexible and anti-tear super fine polyester fiber (PET), densify the material from air inlet to outlet. Also the outlet with hot surface treatment.
- Frame: galvanized steel frame ,Aluminum alloy frame, stainless steel frame or plastic frame.
- Features: multi pockets design ,high ventilation capacity ,large dust holding capacity.

  seamless high temperature fusion technology offers good air tightness and bonding strength.

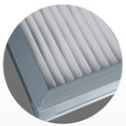
  customized frame design ,the frame and the supporting frame can be used repeatedly.

Technical Specification

Model	Dimensions			Number of pockets	Rated air flow/Initial pressure drop	
	H(mm)	W(mm)	D(mm)		(m^3/h / Pa)	
FRS-ZXDW	592	592	600	6	3400/40	4200/60
	287	592	600	3	1700/40	2100/60

Remark: Other specifications can be customized

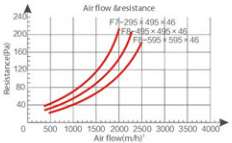
FB panel medium efficiency air filter



Application

Intermediate or end filtration of commercial and industrial ventilation systems, Air conditioning systems.

1. Air conditioning system for clean room , intermediate or end filtration of clean room.
2. Wide application in coating, surface treatment, chemical, cosmetic, pharmacy, hospital, automobile industry etc.



Technical Parameters

Filtration Class: F5、F6、F7、F8(EN779)	Porosity: ⩾1 μ m	Humidity: ⩽100%RH	Temperature: ⩽100℃ maximum in continue service	Instantaneous temperature resistance : ⩽120℃

Material & Features

- Filter material: high strength PET.
- Outer frame: aluminum alloy frame, galvanized steel frame or stainless steel frame.
- Sealant glue : AB glue.
- Sealant: foamed EVA.
- Features: rigid, repeated use after washing.

Technical Specification

Model	Filtration class	Dimensions			Initial pressure drop	Final pressure drop	Rated air flow (m^3/h)	Filtration Efficiency (%)
		W(mm)	H(mm)	D(mm)				
FRS-MBF05	F5/EU5	595	595	46	≤90	≤360	3300 2300 1600	45
		595	495	46				
		295	595	46				
FRS-MBF06	F6/EU6	595	595	46	≤105	≤420	3600 2400 1800	65
		495	495	46				
		295	595	46				
FRS-MBF07	F7/EU7	595	595	46	≤120	≤480	3300 2300 1600	85
		495	495	46				
		295	595	46				
FRS-MBF08	F8/EU8	595	595	46	≤140	≤560	2500 1700 1200	95
		495	495	46				
		295	595	46				

Remark: Other specifications can be customized

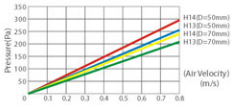
Mini-pleat HEPA filter & ULPA filter

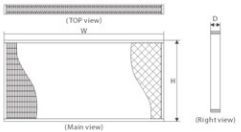
- High efficiency (majorly for the capture of particles ≥0.3 μ m)
- Thin and slim (minimum thickness 25mm)
- Low resistance
- Light-weight design

Application

Commercial and industrial ventilation systems, intermediate or end of the filter of air conditioning systems.

1. Clean room fresh air conditioning system, end filter of clean room air inlet.
2. Main air filtration of FFU air cleaning equipment.
3. Widely used in electronics, optics, semiconductors painting, chemical, cosmetics, pharmacy, hospitals, automobile industries etc.
4. End filter of commercial and household air purifiers.





Technical Parameters

Filtration Class:
H10、H11、H12、H13、H14、U15、U16、U17(EN779)

Arrestance Efficiency:
99%、99.9%、99.99%、99.999%、99.9999%、99.99999%(ASHRAE52.1-1992)

Resistance to temperature:
≤80℃

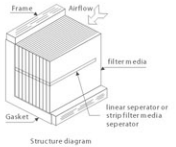
Porosity:
≥0.5 μ m、≥0.3 μ m、≥0.1 μ m

Humidity:
≤100%RH

Instantaneous temperature resistance:
≤100℃

Material & Features

- Protective mesh: Diamond metal paint sprayed.
- sealant glue : AB component glue.
- Filter material: ultra-thin glass fiber filter paper, artificial fiber filter paper.
- Features: small size, large filtration area, low resistance high efficiency.
- Outer frame: aluminum alloy frame, galvanized steel frame, stainless steel frame, paper frame.
- Sealant: foamed EVA.
- Separator: hot melt adhesive.



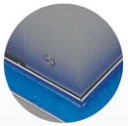
Structure diagram

Technical Specification

Dimensions			Rated air flow (m^3/h)	Initial pressure drop (Pa)			Filtration efficiency (%)
W(mm)	H(mm)	D(mm)		0.25m/s	0.5m/s	0.75m/s	
305	305	69	250	≤120	≤220	≤240	99%
305	610	69	500				99.9%
610	610	69	1000				99.99%
915	610	69	1500				99.999%
1170	570	69	1800				99.9999%

Remarks: other specification to be customized, usual thickness can be 35mm/50mm/80mm/96mm

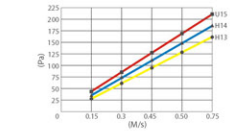
Gel Seal HEPA filter & ULPA filter



Application

Commercial and industrial ventilation systems, intermediate or end filter of air conditioning systems.

1. Clean room fresh air conditioning system, end filter of clean room.
2. Wide application in pharmacy, hospitals, food, biological products, health products as well as end filter in clean room.



Technical Parameters

Filtration grade:
H13、H14、U15、U16、U17(EN779)

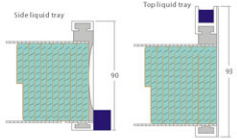
Filter efficiency:
99%、99.9%、99.99%、99.999%、99.9999%、99.99999%(ASHRAE52.1-1992)

Resistance to temperature:
≤80℃

Porosity:
≥0.5 μ m、≥0.3 μ m、≥0.1 μ m

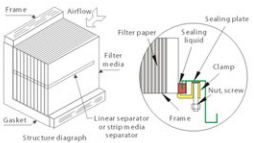
Humidity:
≤100%RH

Instantaneous temperature resistance:
≤100℃



Material & Features

- Separator: hot melt adhesive.
- Liquid tray glue: long-lasting glue.
- Protective mesh: Diamond metal paint sprayed.
- Feature: small size, large filter area, easy to install, long life span.
- Filter material: ultra-thin glass fiber filter paper, artificial fiber filter paper.
- Sealant glue : AB component glue.
- Outer frame: aluminum alloy frame.



Structure diagraph

Technical Specification

Dimensions			Rated air flow (m^3/h)	Initial pressure drop (Pa)			Filtration efficiency (%)
W(mm)	H(mm)	D(mm)		0.25m/s	0.5m/s	0.75m/s	
450	450	90/93	500	≤120	≤220	≤240	99.99%
610	610	90/93	1000				99.999%
915	610	90/93	1500				99.9999%
1220	610	90/93	2000				99.99999%

Remarks: other specification to be customized, In most occasion, the side liquid tray can be 90mm, while top liquid trap thickness can be 93mm.

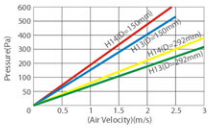
Deep-pleat HEPA filter

- Low resistance
- High dust capture capacity
- Good air flow penetration uniformity
- High arrestance efficiency (majorly capture of particles of 0.3 or 0.5 μm)

Application

Commercial and industrial ventilation systems, intermediate or endfilter of air conditioning systems.

1. Clean room fresh air conditioning system, end filter of clean room.
2. Main air filtration of FFU air cleaning equipment.
3. Wide application in electronics, optics, semiconductors, coating, chemical, cosmetics, pharmacy, hospitals and automobile industries.



Technical Parameters

Filtration grade:
H10、H11、H12、
H13、H14(EN779)

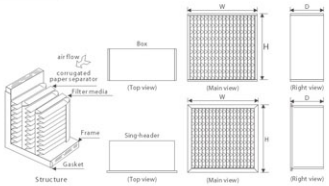
Humidity:
≤100%RH

Porosity:
≥0.5 μm、≥0.3 μm

Resistance to temperature:
≤80℃

Efficiency:
99%、99.9%、99.99%、
99.999%(ASHRAE52.1-1992)

Instantaneous temperature resistance
≤100℃



Material & Features

- Filter material: ultra-thin glass fiber filter paper, artificial fiber filter paper.
- Separators: corrugated double glue paper or corrugated aluminum foil.
- Outer frame: aluminum alloy frame, galvanized steel frame, stainless steel frame, plastic frame or wooden frame.
- Sealant glue: AB component glue.
- Sealant strip: foamed EVA.

Technical Specification

Dimensions			Rated air flow (m^3/h)	Initial pressure drop (Pa)			Filtration efficiency (%)
W(mm)	H(mm)	D(mm)		0.25m/s	0.5m/s	0.75m/s	
320	320	220	400	≤120	≤220	≤240	99% 99.9% 99.99% 99.999%
484	484	220	1000				
610	610	150	1000				
630	630	220	1500				
610	610	292	2000				

Remark: Other specifications can be customized

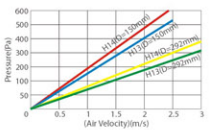
High-temp. HEPA filter

- High efficiency
- Low resistance
- High dust holding capacity
- High temp resistance,can work under temperature 250-450℃

Application

Commercial and industrial ventilation systems, endfilter of air conditioning systems.

1. Clean room fresh air conditioning system, end filter of clean room.
2. End filter of ventilation with high fire-proof/high temp resistance working condition.
3. Widely application in electronics, optics, semiconductor, coating, chemical, cosmetics, pharmacy, hospitals and automobile industries.



Technical Parameters

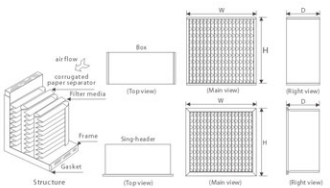
Filtration grade:
H10、H11、H12、
H13、H14(EN779)

Porosity:
≥0.5 μm、≥0.3 μm

Humidity:
≤100%RH

Resistance to high temperature:
≤250℃、≤350℃、≤450℃

Filter Efficiency:
99%、99.9%、99.99%、
99.999%(ASHRAE52.1-1992)



Material & Features

- Filter material: fiberglass, high temp resistance fiberglass filter paper.
- Outer frame : aluminum alloy or galvanized steel or stainless steel frame.
- Sealant glue : high temperature resistance glue.
- Separators: Corrugated Aluminum foil.
- Sealant strip: high temperature resistance glue.

Technical Specification

Dimensions			Rated air flow (m^3/h)	Initial pressure drop (Pa)			Filtration efficiency (%)
W(mm)	H(mm)	D(mm)		0.25m/s	0.5m/s	0.75m/s	
320	320	220	400	≤120	≤220	≤240	99% 99.9% 99.99% 99.999%
484	484	220	1000				
610	610	150	1000				
630	630	220	1500				
610	610	292	2000				

Remark: Other specifications can be customized

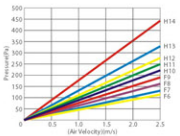
Medium efficiency combined filter/ HEPA combined filter

- Large airflow
- Low resistance
- Extendible filtration area
- Leakage tested, quality assured
- With assembly flange, adaptable with pocket filter

Application

Commercial and industrial ventilation systems, intermediate or endfilter of air conditioning systems.

1. Intermediate or end filter of air conditioning systems of dust-free room fresh air conditioning system.
2. Large air flow requirement or limited space of installing ventilation system.
3. Widely applied in electronics, optics, semiconductors, coating, chemical, cosmetics, pharmacy, hospitals, and automobile industries.



Technical Parameters

Filtration grade:
F6、F7、F8、F9、H10、H11、H12、H13、H14(EN779)

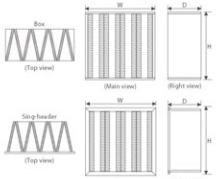
Humidity:
≤100%RH

Porosity:
≥0.5 μm、≥0.3 μm

Resistance to temperature:
≤80℃

Filter Efficiency:
65%、75%、85%、95%、99%、99.9%、99.99%、99.999%、99.999%(ASHRAE52.1-1992)

Instantaneous temperature resistance
≤100℃

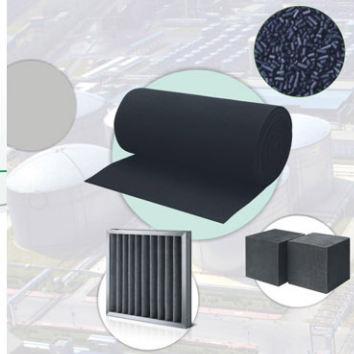


Material & Features

- Separators: Hot fusion glue.
- Sealant: foamed EVA.
- Sealant glue : AB two component glue.
- Filter material: ultra-thin glass fiber filter paper, artificial fiber filter paper.
- Outer frame: plastic frame, aluminum alloy or galvanized or stainless steel frame.
- Features: Low airflow resistance and high efficiency, Large air flow, easy installation, exchangeable with medium efficiency pocket filters.
- Technical Customization diversity in plastic FV single header frame, aluminum alloy FV single flange (header) frame, or aluminum alloy HV box combined models.

Technical Specification

Model	Dimensions			Filter area (m^2)	Rated air flow (m^3/h)	Filtration grade EN779	Filtration efficiency (%)
	W(mm)	H(mm)	D(mm)				
FV Single flange type	592	287	292	10.40	1700	F6~F9 H10~H14	65%~95% 99%~99.999%
	592	592	292	20.81	3400		
HV Box type	305	610	292	8.06	1700		
	610	610	292	18.26	3400		



ACTIVATED CARBON

Product Series

- Activated carbon media
- Activated carbon foam
- Granular Activated carbon foam
- Activated carbon non-woven fabric
- Sandwich Activated carbon cloth
- Fiber Activated carbon felt
- Photocatalyst Filter Mesh
- Activated carbon Plank Filter
- Activated carbon foldaway Filter
- V-type Activated Carbon Combined Air Filter
- Activated carbon Pocket Filter
- Granular Activated Carbon Filter
- Honeycomb Activated Carbon air Filter
- Anthrax activated carbon
- Cocoanut active carbon
- Chemical filter

Activated carbon is a material full of porosity structure and surface adsorption, with good absorption performance, stable chemical property and mechanical strength, it is widely applied in industrial, agriculture, national defense, communication, pharmacy, environment protection industries.

Activated carbon is materialized from carbon with rich porosity structure and adsorption capabilities, it is now becoming one of the most popular filter material both industrial and household.

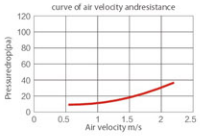
We see continuous growth from industrial and household demands globally in a good wish of seeking better living and working condition.

Activated carbon filter media

Application

Various ventilation systems, air conditioning systems, dust removal equipment and exhaust gas purification.

1. Air conditioning and ventilation systems dust removal and deodorization
2. All kinds of organic exhaust filter purification
3. Formaldehyde, toluene and hazardous gas adsorption
4. Home use & commercial use, coating industry exhaust gas emissions purification
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Adsorption objects:	Flame retardant rating:	Final pressure drop:	Humidity resistance:	Resistance to temperature:	Instantaneous temperature resistance:
≥ all kinds of organic gases	F1(DIN 53438), B1(GB/T 17591-2006)	200pa(recommended)	≤80%RH	≤100℃	≤120℃

Material & Features

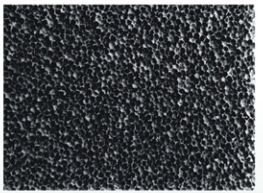
- Activated carbon media is made of quality carbon powder alike material and adhere to non-woven fabric cloth.
- Good adsorption and dust capture performance, can be trimmed to suit any dimension, good strength and low airflow velocity resistance.
- Resistance to general chemical liquid even weak acid/alkaline, avoid direct and long term sun radiation.

Technical Specification

Model	Dimension			Carbon content (%)	Benzene adsorption (%)	Recommended adsorption airflow speed (m/s)
	L(m)	W(m)	T(mm)			
FRS-ACM05	20/50	1/1.3/2	5±1	≥45%	≥ 22%	< 0.5
FRS-ACM10	20	1/1.3/2	10±2			

Remark: Other specifications can be customized

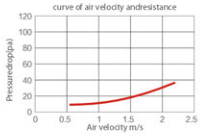
Activated Carbon Foam



Application

Various ventilation systems, air purification and air conditioning systems

1. Air conditioning and ventilation systems dust removal and deodorization
2. All kinds of organic exhaust filter purification
3. Formaldehyde toluene hazardous gas adsorption
4. Home use & commercial use, coating industry exhaust gas emissions purification
5. Can be customized in pad/pad with frame/roll.



Technical Parameters

Adsorption objects:	Flame retardant rating:	Porosity range:	Final pressure drop:
≥ All kinds of organic gases	B1、B2 (GB/T 17591-2006)	10–60PPI	200Pa(recommended)

Humidity:	Resistance to temperature:	Instantaneous temperature resistance:
≤80%RH	≤100℃	≤120℃

Material & Features

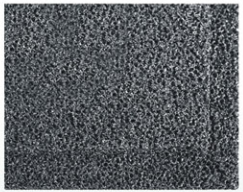
- Activated carbon media is made of quality carbon powder alike material and adhere to non-woven fabric cloth.
- Good adsorption and dust capture performance, can be trimmed to suit any dimension, the material offers good strength and low airflow velocity resistance.
- Resistance to general chemical liquid even weak acid/alkaline, avoid direct and long term sun radiation.

Technical Specification

Model	Dimension			Carbon content (%)	Benzene adsorption (%)	Recommended adsorption airflow speed (m/s)
	L(m)	W(m)	T(mm)			
FRS-ACHM	2	1	3~200	≥ 50%	≥ 25%	< 0.5

Remark: Other specifications can be customized

Granular activated carbon foam



Application

Various ventilation systems, air purification and air conditioning systems

1. Air conditioning and ventilation systems dust removal and deodorization
2. All kinds of organic exhaust filter purification
3. Formaldehyde toluene hazardous gas adsorption
4. Can be customized in pad/pad with frame/roll.
5. Home use & commercial use, coating industry exhaust gas emissions purification

Technical Parameters

Adsorption objects:	Flame retardant rating:	Porosity range:	Final pressure drop:
≥ all kinds of organic gases	B1 , B2 (GB/T 17591-2006)	15–60PPI	200Pa(recommended)

Humidity resistance:	Resistance to temperature:	Instantaneous temperature resistance:
≤ 80%RH	≤ 100℃	≤ 120℃

Material & Features

- Granular activated carbon foam uses good granular activated carbon as the base material and foaming to sponge alike material.
- High carbon content and good adsorption performance, can be trimmed to suit any dimension, Porosity can be customized to allow low airflow velocity resistance.
- Resistance to general chemical liquid even weak acid/alkaline, avoid direct and long term sun radiation.

Technical Specification

Model	Dimension			Carbon content (%)	Benzene adsorption (%)	Recommended adsorption airflow speed (m/s)
	L(m)	W(m)	T(mm)			
FRS-ACKM	2	1	3–200	≥ 50%	≥ 28%	< 0.5

Remark: Other specifications can be customized

Activated Carbon non-woven Fabric

Application

Air filters mesh, masks, shoe materials, storage boxes and etc.

1. Air conditioning and ventilation systems dust removal and deodorization
2. Formaldehyde, toluene and hazardous gas adsorption
3. Home use & commercial use, coating industry exhaust gas emissions purification
4. Can be customized in pad/pad with roll.

Technical Parameters

Adsorption objects:	Flame retardant rating:	Humidity:	Resistance to temperature:	Instantaneous temperature resistance
≥ all kinds of organic gases	B1(GB/T 17591-2006)	≤ 80%RH	≤ 100℃	≤ 120℃

Material & Features

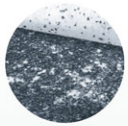
- Activated carbon media is made of quality coconut shell carbon powder material and adhere to non-woven fabric cloth.
- Good adsorption and dust capture performance, can be trimmed to suit any dimension, good strength and low airflow velocity resistance.
- Resistance to general chemical liquid even weak acid/alkaline, avoid direct and long term sun radiation.

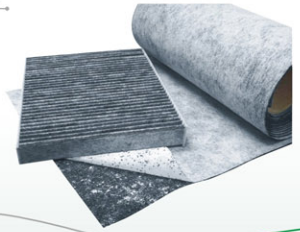
Technical Specification

Model	Dimension			Carbon content (%)	Benzene adsorption (%)	Weight range (g/m^2)
	L(m)	W(m)	T(mm)			
FRS-ACWB	1000	1/1.6	0.2–1	≥ 40%	≥ 25%	30–200

Remark: Other specifications can be customized

Sandwich Activated Carbon Cloth





Application

Air filters mesh, masks, shoe materials, storage boxes and etc.

1. Air conditioning and ventilation systems dust removal and deodorization
2. Formaldehyde, toluene and hazardous gas adsorption
3. Home use & commercial use, coating industry exhaust gas emissions purification
4. Used for car air cell
5. Use in pad, in frame or in rolls

Technical Parameters

Adsorption objects:	Flame retardant rating:	Humidity:	Resistance to temperature:	Instantaneous temperature resistance
≥ all kinds of organic gases	B1(GB/T 17591-2006)	≤80%RH	≤100℃	≤120℃

Material & Features

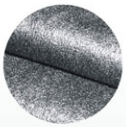
- Activated carbon media is made of quality coconut shell carbon powder material and adhere in between two layers of non-woven fabric cloth and long fiber.
- High carbon content, good adsorption and dust capture performance, can be trimmed to suit any dimension, good strength and low airflow velocity resistance.
- Resistance to general chemical liquid even weak acid/alkaline, avoid direct and long term sun radiation.

Technical Specification

Model	Dimension			Carbon content (%)	Adsorption (%)	Weight range (g/m^2)
	L(m)	W(m)	T(mm)			
FRS-ACJT	100	1/1.5	0.5~1.5	≥10%~80%	≥25%	60~650

Remark: Other specifications can be customized

Activated Carbon Fiber Felt



Application

Mainly applied to the recovery of the organic solvents, air purification, heath care, protective clothing, electron and energy sector as well as the area of corrosion resistance and heat resistance.

1. Dust removal and deodorization filtration in air-conditioner and ventilation system.
2. Harmful gas (such as formaldehyde and toluene) adsorption and purification.
3. Household and commercial air purifier, HVAC system.
4. Air purification: can adsorb and filter organic matter in the air, foul gas, exhaust, poisonous gas and carcinogens, etc.
5. Water purification: used for eliminating heavy mental irons, organic substances, carcinogens, evil odor, rust, toxic odor, bacteria and decolorization in the water. Also used in tap water, food industrial water and industrial pure water, etc.
6. Solvent recycle: adsorption and recycle of the benzene, ketones, alcohols and petroleum.
7. Protection: the manufacturing of protective mask, toxic-proof clothing and cigarette filter tips.
8. Chemistry: extraction and recycle of noble metal, adsorption of radioactive material, a carrier of inert gas, GC stationary phases.
9. Aerospace: used for carbon fiber reinforced material on planes and aircraft carriers.
10. Medical and biological engineering: in medicine, it's used in dressing, acute antidote and all kinds of medical and sanitary products which are intended for sterilizing.
11. Can be used in pad/rolls/folded/ framed or one whole roll.

Technical Parameters

Weight:	Thickness:	Flame retardant grade:	Humidity:	Temperature:	Instantaneous temperature:
50~700g/m^2	0.3~12mm	B1(GB/T 17591-2006)	≤80%RH	≤400℃ maximum in continue service	≤450℃

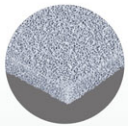
Material & Features

- It is made from viscose-based fiber by carbonization in high temperature vacuum.
- The performance of ACF is superior to high-effective activated adsorptive materials and environmental protection materials of activated carbon.
- It features abundant micron pores, large specific surface area, excellent adsorptive capacity and good reducing ability. It's different special functions are manifested in various industries.

Technical Specification

Specific Surface Area (m^2/g)	Benzene Adsorption (Wt%)	Iodine Adsorption (Mg/g)	Methylene Blue Adsorption (Ml/g)	PH	Ignite Point (℃)
900-1800	30-80	850-1500	150-300	5-7	>500

Photocatalyst Filter/ Cold Catalyst Filter



Application

Applied to various commercial and industrial fresh air purification or exhaust emission purification.

① Cleanroom outdoor-air air-conditioning system, MAU air purification.
② Industrial exhaust emission purification
③ Commercial exhaust emission purification
④ Purification layer of household air purifier
⑤ Can be used alone/in sliced/ in framed/ in combination with other purifying materials.

Technical Parameters

Formaldehyde removal rate:	The average killing rate:	The average killing rate:
> 90% in one hour	>99.88% in one hour	>99.99% in two hours

Material & Features

- Purifying material: Nanometer-sized TiO_2.
- Filter substrates: Sponge base, aluminium base, nickel base.
- Comprehensiveness: Photocatalyst is the safest and cleanest environmental purification materials in the world at present, which is widely used in Europe and America, Japan, Korea and other regions. It can be used for processing in purifying project of the NASA space station, degradation engineering of maritime oil pollution and disinfection operation of Japan bus transport company. furthermore, photocatalyst can effectively degrade pollutants like formaldehyde, benzene, toluene, xylene, ammonia and TVOC. It also has efficient and extensive disinfection property that can resolve and safely dispose the toxins released by bacteria or fungi.
- Sustainability: In the condition of less-severe environmental pollution, so long as the photocatalyst itself doesn't wear and peel, it will not alter or cause any loss. And it can purify pollutants continually under irradiation with the advantage of time durability and sustained effect. But in the condition of serious environment pollution, the life and effect of photocatalyst can be affected by some sulfate radical and nitrate ion. Moreover, it also cause photocatalyst's deactivation, but activity can be recovered through related techniques.
- Safety: non-toxic, harmless, safe to human health, without any secondary pollution.
- Cold catalyst is new materials, which is born based on the photocatalyst. It can generate catalytic reaction without UV light source.

✱ Specification can be customized per requirement

Activated Carbon Plank Air Filter

Application

Purification of fresh air and exhaust gas for commercial & industrial ventilation system.

① Pre-filters for cleanroom MAU system and fresh air unit.
② Fresh air pre-filters for central air-conditioning system.
③ Air intakes pre-filters for fresh air purification equipment.
④ Exhaust emission first-level or second-level filtering.

Technical Parameters

Filtering objects:	Moisture resistance (relative humidity):	Temperature:	Instantaneous temperature resistance:
Low concentrations of odors, formaldehyde, benzene, ammonia and other organics.	≤ 80%RH	≤ 100℃ maximum in continue service	≤ 120℃

Material & Features

- Filter materials: Activated carbon particles or synthetic media saturated with carbon, non-woven activated carbon or activated carbon fiber felt.
- Grids: Galvanized mesh, aluminum mesh, stainless steel mesh or spray mesh.
- Frame: Galvanized steel, aluminum alloy, stainless steel or cardboard.
- Features: Removable structure can be reused, frame and grid is reusable.

Technical Specification

Model	Dimension			Adsorption rate	Best adsorption air velocity (M/s)	Initial pressure drop (Pa)
	H(mm)	W(m)	T(mm)			
FRS-PBH-7	595	595	7	≥25%	≤0.5	≤50
FRS-PBH-10	595	595	10			
FRS-PBH-15	595	595	15			
FRS-PBH-21	595	595	21			
FRS-PBH-25	595	595	25			
FRS-PBH-46	595	595	46			

Remark: Other specifications can be customized

Activated Carbon Pleated Air Filter

Application

Purification of fresh air and exhaust gas for commercial & industrial ventilation air-conditioning system.

① Pre-filters for cleanroom MAU system and fresh air unit.
② Fresh air pre-filters for central air-conditioning system.
③ Air inlet pre-filters for fresh air purification equipment.
④ Exhaust emission first-level or second-level filtering

Technical Parameters

Filtering objects:	Adsorption rate:	Moisture resistance (relative humidity):	Temperature:	Instantaneous temperature resistance:
Low concentrations of odors, formaldehyde, benzene, ammonia and other organics.	⩾25%~35%	⩽80%RH	⩽100℃ maximum in continue service	⩽120℃

Material & Features

- Filter materials: Activated carbon synthetic filter media, non-woven activated carbon or activated carbon fiber felt.
- Grids: Galvanized mesh, aluminum mesh, stainless steel mesh or spray mesh.
- Frame: Aluminum alloy, galvanized steel, stainless steel or cardboard.
- Technique: Single mesh folding, dual mesh folding, main/sub rail folding type(more stable and can be modified to removable type, filter media renewable, outer frame and rails for multiple use).

Technical Specification

Model	Dimension			Number of folds	Best adsorption air velocity(m/s)	Initial pressure drop (Pa)
	H(mm)	W(m)	T(mm)			
FRS-ZDH-25	595	595	25	16	≤0.5	≤50
	290	595		8		
FRS-ZDH-46 FRS-ZDK-46	595	595	46	16/10		
	290	595		8/5		
FRS-ZDH-96 FRS-ZDK-96	595	595	96	10		
	290	595		5		

Remark: Other specifications can be customized

V-type Activated Carbon Combined Air Filter

Application

Purification of fresh air and exhaust gas for commercial & industrial ventilation and air-conditioning system.

① Purification for MAU system air outlet.
② Secondary or third level filter for central air-conditioning system.
③ Exhaust emission first-level or second-level filtering.

Technical Parameters

Filtering objects:	Adsorption rate:	Moisture resistance (relative humidity) :	Temperature:	Instantaneous temperature resistance:
Low concentrations of odors, formaldehyde, benzene, ammonia and other organics.	⩾30%	⩽80%RH	⩽80℃ maximum in continue service	⩽100℃

Material & Features

- Adsorbing materials: High-quality granular activated carbon, spherical activated carbon and active oxide aluminum ball.
- Protective material: Paper honeycomb, plastic honeycomb or metal box.
- Frame: Aluminum alloy, galvanized steel, stainless steel.
- Feature: It offers better adsorbing and aerodynamics performance. Widely used for purifying some organic gas, such as toluene, xylene, benzene, phenols, lipid, alcohols, aldehydes and stench.
- V type combined structure, more airflow in limited space, easy to install.
- Carbon media can be replaced, outer frame can be multiple used, in technique diversity, it can be divided to plastic frame FV single flange combined type, metal frame FV single flange combined type, as well as metal frame HV box combined type.

Technical Specification

Model	Dimension			Number of folds	Filter area (m^2)	Rated Air velocity (m^3/h)	Initial pressure drop (Pa)
	H(mm)	W(m)	T(mm)				
FV Single Flange	592	287	292	4V	0.65	1700	≤50
	592	592	292	4V	1.2	3400	
HV Box type	305	610	292	2V	0.7	1700	≤50
	610	610	292	4V	1.4	3400	

Activated Carbon Pocket Air Filter

Application

Purification of fresh air and exhaust gas for commercial & industrial ventilation and air-conditioning system.

① Pre-filters for cleanroom MAU system and fresh air unit.
② Fresh air pre-filters for central air-conditioning system.
③ Air inlet pre-filters for fresh air purification equipment.
④ Exhaust emission first-level or second-level filtering.

Technical Parameters

Filtering objects:	Adsorption rate:	Moisture resistance (relative humidity):	Temperature:	Instantaneous temperature resistance:
Low concentration of organics such as odors, formaldehyde, benzene and ammonia.	≥25%	≤80%RH	≤100℃ maximum in continue service	≤120℃

Material & Features

- Filter materials: Activated carbon synthetic filter media
- Frame: Galvanized steel, Aluminum alloy, stainless steel or plastic/ABS.
- Features: Multi-pocket design, large air flow. Frameless design is available. Frame and protective net are reusable.

Technical Specification

Model	Dimension			Number of pockets	Air flow/ Initial pressure drop	
	H(mm)	W(m)	D(mm)		(m^3/h / Pa)	
FRS-HXTD	592	592	600	6	3400/40	4200/60
	287	592	600	3	1700/40	2100/60

Remark: Other specifications can be customized

Honeycomb Activated Carbon Air Filter

Application

Purification of fresh air and exhaust gas for commercial & industrial ventilation and air-conditioning system.

① Air-supply purification for fresh air system.
② Second-level or third-level purification for household and commercial air purifiers.
③ Exhaust emission first-level or second-level filtering.

Technical Parameters

Filtering objects:	Adsorption rate:	Moisture resistance (relative humidity):	Temperature:	Instantaneous temperature resistance:
Low concentration of organics such as odors, formaldehyde, benzene and ammonia.	≥30%	≤80%RH	≤100℃ maximum in continue service	≤120℃

Material & Features

- Adsorbing materials: High-quality granular activated carbon, spherical activated carbon and active oxide aluminum ball.
- Protective material: Paper honeycomb, plastic honeycomb or metal box.
- Frame: Cardboard frame, aluminum alloy frame, galvanized frame or stainless steel frame.
- Feature: It offers better adsorbing and aerodynamics performance. Widely used for purifying some organic gas, such as toluene, xylene, benzene, phenols, lipid, alcohols, aldehydes and stench.

Technical Specification

Model	Dimension			Standard filling ratio	Best adsorption air velocity(m/s)	Initial pressure drop (Pa)
	H(mm)	W(m)	T(mm)			
FRS-KHXT	100~1000	100~1000	10~100	≥80%	≤0.5	≤50

Remark: Other specifications can be customized

Honeycomb Activated Carbon Cube

Application

Widely used in all kinds of organic exhaust gas purification system with low concentration and large air flow.

① Air-supply purification for fresh air system. ② Exhaust emission first-level or secondary-level filtering.

Technical Parameters

Filtering objects:
Low concentration of organics such as odors, formaldehyde, benzene and ammonia.

Moisture resistance (relative humidity):
≤ 80%RH

Temperature:
≤ 100℃ maximum in continue service

Instantaneous temperature resistance:
≤ 120℃

Material & Features

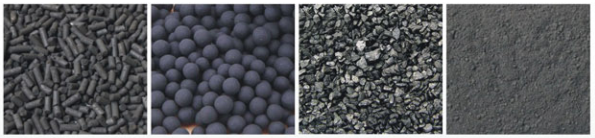
- Materials: High quality coal and clay, ordinary type and water-proof type optional.
- Features: It offers better function of adsorption, desorption and gas dynamics with small windy resistance. Widely used for purifying stench and organic gas containing toluene, xylene, benzene, phenols, lipid, alcohols, aldehydes and trace metals.

Technical Specification

Model	Dimension			Pore density Pore(in²)	Iodine value	Adsorption rate
	H(mm)	W(m)	D(mm)			
FRS-FHXT	100	100	100	50–300	≥ 700	≥ 30%
	50	50	100			

Remark: Other specifications can be customized

Coal Granular Activated Carbon



Application

Purification of fresh air and exhaust gas for commercial &industrial ventilation and air-conditioning system, and sewage disposal treatment.

① Air-supply purification for fresh air system. ② Exhaust emission first-level or second-level filtering.
③ Direct use or processed to air filters.

Material & Features

- Materials: High quality coal and clay.
- Shape: Columnar particle, spherical particle, irregular particle, powder particle
- Feature: It has the properties that offer high mechanical strength, grinding-resistant, pressure-resistant, high temperature-resistant, well-distributed porous structure, high adsorption ability as well as high purification efficiency. Very limited gas resistance and can be regenerated repeatedly when it is used in static bed. Mainly applied in purifying impurities and pollutants in air. i.e., in antibiotic industry it is used as gas filter, gas separation material, carbon dioxide purification, hydrogen refinery, low boiling point substances absorption and recovery, deodorization and degreasing.

Technical Specification

Subject	Parameters									
	Coal granule activated carbon					Coal columnar activated carbon				
Coarseness (mm)	4-8、6-12、8-16、8-20、10-20、12-40、20-40、30-60、40-80					ϕ0.9、ϕ1.5、ϕ2、ϕ3、ϕ4、ϕ8、ϕ10				
Iodine Absorb(mg/g)	≥600	≥700	≥800	≥950	≥1050	≥700	≥850	≥900	≥1000	≥1100
Specific Surface Area(m^2/g)	≥500	≥600	≥700	≥850	≥950	≥600	≥750	≥800	≥900	≥1000
CTC(%)	≤28	≤40	≤50	≤65	≤80	≤38	≤42	≤50	≤80	≤90
Hardness(%)	≤95	≤95	≤94	≤93	≤93	≤97	≤96	≤96	≤96	≤96
Moisture(%)	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5
Ash(%)	≤12	≤12	≤12	≤10	≤10	≤12	≤12	≤12	≤12	≤12
Loading Density(g/l)	600-650	580-620	700-750	500-600	450-550	600-700	500-550	450-550	400-450	400-450

Coconut Shell Activated Carbon

Application

Purification of air, water quality and waste water for commercial & industrial production.

1. Purification of fresh air.
2. Purification of exhaust gas.
3. Purification of all kinds of water.
4. Solvent recovery.
5. Gases separation.
6. Direct use or processed to air filter.

Material & Features

- Materials: High quality coconut shell.
- Shape: Irregular particles.
- Feature: The product offers high mechanical strength, well-distributed pore structure, high specific surface area, rapid adsorption, and it also shows good adsorption properties for all kinds of solute and free gas. This product can be applied in deodorization, dechloridation and liquid decolorization in high purity water, beverage, drinks, food and pharmacy, it can be also used as solvent recovery and gas separation in chemical industry.

Technical Specification

Subject	Parameters							
Coarseness (mesh)	4-8, 6-12, 8-16, 8-20, 10-20, 12-40, 20-40, 30-60, 40-80, 80-150, 200							
Iodine Absorb (mg/g)	≥700	≥800	≥900	≥1000	≥1100	≥1200	≥1500	≥1600
Specific Surface Area (m^2/g)	≥700	≥800	≥900	≥1000	≥1100	≥1200	≥1500	≥1600
CTC(%)	≤35	≤40	≤45	≤60	≤70	≤80	≤100	≤110
Hardness (%)	≤98	≤98	≤97	≤97	≤97	≤95	≤95	≤95
Moisture(%)	≤8	≤8	≤8	≤8	≤8	≤8	≤5	≤5
Ash(%)	≤5	≤4	≤4	≤3	≤2.5	≤2.5	≤2.5	≤2.5
Loading Density (g/l)	580-620	550-600	500-550	450-520	430-500	430-480	430-480	430-480

Chemical Filter

Activated Carbon

phosphoric acid

aluminum oxide

potassium hydrate

potassium hypermanganate

Application

Corrosive odors removal, stinky or polluted chemical gas purification, corrosive gas such as

Mainly adsorbed objects

SO_x, NO_x, H_2S or alkaline gas like NH_3, or Radioactive gas

Material & Features

- Chemical filter is developed from activated carbon filter, its principle is from a combination of modified activated carbon and other chemical medium aiming at purification of one specific or multi-chemical substances, a chemical filter is intended for different chemical gas or polluted substances, with correct filter media to achieve better filtration performance

Commonly used modifier media or ingredient

Activated aluminum oxide, potassium hypermanganate, phosphoric acid, potassium hydrate

Product selection/combination reference

Performance Index / Filter media / Gas Type	Material			
	Activated Carbon	6% potassium hypermanganate + aluminum oxide	10% phosphoric acid+ Activated carbon	5-10% potassium hydrate+ Activated carbon
VOC	8	2		6
Ozone	10	2		10
N_2O	6	4		9
HNO_3	6	6		9
Acid/Alkaline gas(HCl, AHF, chlorinum)	0	0		8
Alkaline/corrosive gas(ammonia/amine)	0	0	9	0
odors/corrosive gas(hydrogen sulphide)	1	8	2	10
Odors/corrosive gas(SO_2)	7	8	2	9
Odors/corrosive gas(organic sulfur)	5	8		9

✱ Filter type: panel filter/V type combined filter/cynlindual filter.

Filter type contrast

Filter Type	Initial Efficiency	Dust capture capacity
Honeycombed plank	Medium	High
Honeycombed V type	High	High
Incompact V type	High	High
Incompact carbon tube	High	High

OTHER FILTER MATERIAL

Product Series

- > Bag Filter
- > Dust Filter Cartridge
- > Liquid Filter bag/Degrease filter bag
- > Liquid filter cartridge
- > Biochemical filter mat/Coconut filter mat

Bag Filter

Application

Dust collection and exhaust gas and dust purification for commercial & industrial production

1. Ambient temp dust capture and smoke emission purification.
2. High temperature dust capture and smoke emission purification.
3. Corrosive dust capture and smoke emission purification.
4. Direct use or be use with dust removal equipment. Mainly applied in Mills, steelworks, ferroalloy manufactory, refractory plant, foundry, power plant, cement plant, chemical plant, and food processing plant, carbon black plant, aluminum plant and a multitudes of industries.

Material & Features

- Materials: flannelette, polyester needled felt, three-proof polyester needled felt, glass fiber needled felt, PPS needled felt, P84 needled felt, PTFE needled felt, FMS needled felt, and METAMAX needled felt etc.
- Filter bags shape options- flat bag(trapezoid or square) and tube bag.
- Filter bag airflow outlet options: downward air intake and upward air outlet/upward intake and downward outlet/straight in/outlet (only limited to flat bag).
- Purification options: exterior purification or interior purification.
- Temp resistance options: high temp/medium temp/ambient temp.
- Temp resistant range: ≤130℃~≤300℃.
- Specification: up to preference.

Dust Filter Cartridge

Application

Commercial/Industrial facility dust/exhaust gas capture and filtration.

1. Ambient temp dust collection and gas filtration.
2. High temp dust collection and gas filtration.
3. Corrosive dust collection and gas filtration.
4. This filter shall work with dust filtration equipment to be applied in powder/coating, shot-blasting, dust removal, and hardware coating spray booth, and in general the applications are on dust removal, ultrafine particles recycling as well as air purification.

Technical Parameters

- Material: Ultra strength polyurethane fiber non-woven fabric cloth, the Tubular fiber are reciprocal chiasma to form more compact and well distributed openings, which ensures better filtration performance.
- Integrate with robust, durable PU material and corrosive proof steel structure, the outer structure can be fitted with glue line to offer more mechanical strength.
- opening and wrinkle re-designed to increase effective filtration area, airflow stabilized and barrier free.
- Compared to conventional filter bags, the filtration area doubled and even tripled, less resistance and longer life span.
- Temp resistance range: ≤130℃~≤300℃.
- Type options: General Type/Fast fold type/hoisting type/elliptic type/Cone type.

Technical Contrast of General Type

Model	OD(mm)	Height(mm)	ID(mm)	Total Height(mm)	Bottom Cap Hole ID (mm)	Filtration Area(m²)
FRS-LT3260	325	600	215	610	16	6.5
FRS-LT3266	325	660		670		7
FRS-LT3290	325	900		910		9

Remarks: other specification to be customized, quick removal no-hole bottom cap.

Liquid Filter bag/Degrease bag

Application

Commercial/Industrial liquid filtration

1. Chemical coating/plating/spraying/Ink filtration.
2. Food, Pharmaceutical, beverage industry filtration
3. Direct use or work with liquid filtration equipment

Material & Features

- Material: Fiber glass, PP/PE, nylon monofilament/ NOME etc.
- Workmanship: sewing or heat fusion
- Fixing ring material options: stainless steel ring, zinc plated ring, polyester/ polypropylene plastic ring
- Filtration precision: between 25 μ m-840 μ m

Technical Contrast of General Type

Type 1		Type2		Type 3		Type 4		Type 5	
Φ (mm)	L(mm)	Φ (mm)	L(mm)	Φ (mm)	L(mm)	Φ (mm)	L(mm)	Φ (mm)	L(mm)
180	430	180	820	106	230	106	380	150	510
7×17 inch		7×32 inch		4×9 inch		4×15 inch		6×20 inch	

Remark: Other specifications can be customized

Liquid filter cartridge

Application

Applied on all kinds of liquid filtration both commercial or industrial

1. Electronics/Power Industry: Purified water, gas, Electroplating liquid/ printing liquid filtration.
2. Chemical, Petrochemical: solvent/coating/magnetic paint/ detergent/liquid wax.
3. Pharmaceuticals industry: medical water/injection liquid/oral liquid etc.
4. Food industry: food/beverage/drinkable water/liquor etc.
5. Work with liquid filter equipment

Material & Features

- Material : PP flame spray/degrease cotton thread/ acticarbon /stainless steel
- Category: PP flame spray cartridge, degreased cotton thread cartage, active carbon cartridge, stainless steel fritting cartridge.
- Filter precision: 1~200 μ m

Technical Contrast of General Type

5 Inch type		10 Inch type		20 Inch type		30 Inch type		40 Inch type	
Φ(mm)	L(mm)	Φ(mm)	L(mm)	Φ(mm)	L(mm)	Φ(mm)	L(mm)	Φ(mm)	L(mm)
70	127	70	254	70	508	70	762	70	1016

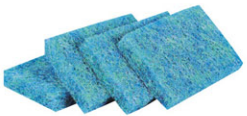
Remark: Other specifications can be customized

Biochemical filter mat

Application

cultivation water purification/industrial ventilation and waste gas purification.

1. Vehicle Spray Booth/Factory Painting workshop
2. central air-conditioning tunnel cleaning.
3. Condensate water denoise/oil-water separation
4. Waste water treatment plant/waterworks/cooling tower/swimming pool/fish pool/cultivation OPU
5. Can be trimmed for filter or used in one whole piece.



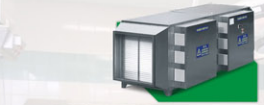
Material & Features

- Polyolefin and Eurelon made pressed quality fiber with corrosion & aging proof features, (fiber thread diameter 0.25mm)
- Featured with pharmaceutical proof, water proof and light permanency, flame retardancy as well as water permeability
- Ultra water permeability - multiple washable and recyclable.
- Long life span- 5 years soaking in water without any loose.
- Chlorine free, harmless to environment after treatment.
- Impurity and bacteria free, react with nitrite and become harmless and non-toxic nitrate.

Technical Contrast of General Type

Model	L(mm)	W(mm)	T(mm)	Weight (Kg)	Standard Color
FRS-SHM30	2000	1000	30	3.6~3.8	White, blue and green mixture
FRS-SHM38	2000	1000	38	4~4.2	

Remark: Other specifications can be customized



PURIFICATION Product Series

- > Air Purifier
- > (FFU) Fan Filtration Unit
- > Air shower room
- > High Efficiency Air outlet
- > Clean worktable
- > Pass box
- > Exhaust gas purification equipment

The definition of Purification - removal of corpuscular, hazardous air and bacteria, also a certain level control/balance of interior temperature, cleanliness, pressure, airflow speed, air distribution, noise, vibration, luminance, as well as static electricity.

The purpose is to keep interior cleanliness, temp and pressure etc. no matter how exterior air condition changes.

Air purifier

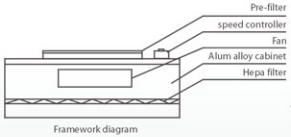
Application

Commercial & Household air purification, plug & use

1. Commercial/office air purification
2. Household interior air purification
3. Other living environment air purification

1. **Pre-filter mesh**
   Capture of matters such as hair, pellet, and dust to prevent respiratory disease
2. **Formaldehyde defender mesh**
   Dampproof, ventilated, flexible, light-weighted, fire-proof mesh, effectively eliminate virus like H7N9 flu, bacteria any particles ⩾ 20 μ m
3. **High efficiency HEPA filter mesh**
   Easy filter of PM2.5 particles, second hand smoke, pollen, pet hair anaphylactogen, also the mesh is coated with anti-bacteria lacquer to filter any particles ⩾0.3 μ m
4. **Activated carbon+ Cold Catalyst**
   For the removal of hazardous gas such as formaldehyde, benzene, dimethyl benzene, methyl benzene and TVOC . Then react to water or carbon monoxide.

Fan Filter Unit(FFU)



Framework diagram

Application

1. Low power consumption, low operation cost, wind speed adjustable
2. Special wind tunnel design and well distributed air flow, noise proof
3. Computerized remote control of voltage, frequency and speed.
4. Light weight design, Sleeve type installation, easy installation and maintenance

Technical Contrast of General Type

Model		FFU-6060	FFU-5757	FFU-60121	FFU-57117
Dimension		608x608x320	578x578x320	608x1218x320	578x1178x320
Cabinet material		Cold-rolled sheet, Super Galum, Aluminum, SUS304/430 sanding or stainless steel			
Main Filter	Dimension	600*600*69	570*570*69	600*1210*69	570*1170*69
	Filter material	Ultra-fine fibre glass	Ultra-fine fibre glass	Ultra-fine fibre glass	Ultra-fine fibre glass
	Airflow rate	650m^3/h	550m^3/h	1300 m^3/h	1200 m^3/h
	Airflow velocity	0.35-0.6 m/s	0.35-0.6 m/s	0.35-0.6 m/s	0.35-0.5 m/s
	Filter efficiency	99.99%0.3um	99.99%0.3um	99.99%0.3um	99.99%0.3um
	Initial pressure drop	125pa	125pa	125pa	125pa
Pre-filter	Dimension	390*390*21	390*390*21	490*390*21	490*390*21
	Filtration class	G3	G3	G3	G3
	Initial pressure drop	40Pa	40Pa	40Pa	40Pa
Fan model		GermanyEBM	GermanyEBM	GermanyEBM	GermanyEBM
Power		220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Outer static pressure		50-100Pa			
Output power		140/150W			
Adjustment Control		Stepless adjustment switch, with power fusible link protection.			
Noise value < 60 db		< 60decibel			
Options		Main filter with ULPA filter			
		Outer cabinet material can be customized subject to actual working condition			
		EC Control system and software			
		Air inlet piping system			
		Pre-filter filtration grade			

Air Shower

Application

① Computerized smart control interface, easy operation to set air shower mode and blowing time, infrared ray sensor to switch on/off in the air shower cabinet

② With pre-filter and hepa filter in between, the airflow penetrate from pre-filter then through noise-proof fan to Hepa filter then blow out to different direction which effectively removes particles from what human bodies carry in.

③ Blowing speed ⩾ 25m/s, stainless steel spray head. Blowing direction adjustable.

④ A device intended for personnel dust removal during entering clean room.

Technical Contrast of General Type

Model	FRS-1290-1D	FRS-1590-1S	FRS-1590-1T
Outer Dimension	1290x10000x2050	1590x1000x2050	1590x3000x2050
Inner Dimension	790x920x1930	790x920x1930	790x2920x1930
Blowing speed	≥25		
times of aeration	380	380	380
number of blowing head	6	12	36
air shower duration	0~60		
Filter	Pre-filter, washable fiber glass media ⩾ 5um, efficiency 95%,Hepa filter (efficiency ⩾99.99%)		
Power	380V/50Hz		
fluorescent lamp	20Wx1	20Wx1	20Wx3
power dissipation	0.35	0.7	1.05
Net weight	355	412	1150

Hepa Air Blower

Application

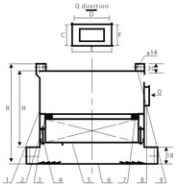
Used for air conditioning, clean room and ventilation system, Medium/Hepa Filter and Air distribution end device, it is combined with HEPA filter and air outlet, the entire structure is a combination of filter, cabinet and air distribution plate, the air inlet can be placed at the top or side of the cabinet

① Computerized smart control interface, easy operation to set air shower mode and blowing time, infrared ray sensor to switch on/off in the air shower cabinet

② With pre-filter and hepa filter in between, the airflow penetrate from pre-filter then through noise-proof fan to Hepa filter then blow out to different direction which effectively removes particles from what human bodies carry in.

③ Blowing speed ⩾25m/s, stainless steel spray head. Blowing direction adjustable.

④ A device intended for personnel dust removal during entering clean room



1.Box 2.Filter assembly frame 3.Positioning pressing block
4.Positining pressing block 5.Hepa Filter 6.Diffuser plate
7.Gasket 8.Air inlet flange 9.Davit

材质及特性

- Outer jacket cold rolled steel
- Surface treated with Electrostatic spraying
- Air spraying speed ensured to avoid vortex
- Simple structure, easy for installation and maintenance

Technical Contrast of General Type

Model		static pressure box dimension	Filter dimension	Rated airflow	Inlet piping dimension	Airflow pipe connection dimension	Ring Clearance	Weight
Side blowing	Top blowing							
FRS-320	FRS-320D	370x370x530	320x320x220	400	200x200	250x250	344x344	-20
FRS-484	FRS-484D	543x543x530	484x484x220	1000	320x200	370x250	508x508	-26
FRS-610	FRS-610D	660x660x460	610x610x150		320x250	370x300	634x634	-30
FRS-820	FRS-820D	870x650x460	820x660x150	1200	320x250		884x624	-35
FRS-630	FRS-630D	680x680x530	630x630x220	1500	320x250		654x654	-35
FRS-726	FRS-726D	776x534x530	726x484x220		400x200		750x508	-35
FRS-915	FRS-915D	965x660x460	915x610x150		500x250	550x300	939x634	-40
FRS-968	FRS-968D	1018x534x530	968x484x220	2000	500x200	550x250	992x508	-50
FRS-1220	FRS-1220D	1270x660x460	1220x610x150		500x200	550x250	1244x634	-55
FRS-945	FRS-945D	995x680x543	945x630x220	2200	500x250	550x300	969x654	-50
FRS-1260	FRS-1260D	1310x680x530	1260x630x220	3000	650x300	650x300	1284x654	-60

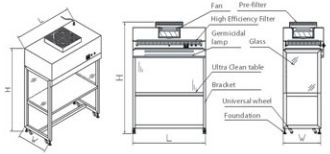
Clean work table

Application

Mainly used in electronics, biology, pharmacy, precision instrument industries, which requires relatively high cleanliness operation condition, the clean work table is an universal device for topo-purification (horizontal or vertical airflow), the purification grade can even reach class 100 cleanliness.

Material & Features

- Stainless steel made, horizontal or vertical type of airflow optional
- Adjustable airflow fan system, touch switch power adjustment
- Best airflow condition in the work zone.



Technical Contrast of General Type

Model	FRS-CJ-1B	FRS-CJ-1C	FRS-CJ-1BU	FRS-CJ-1CU
Cleanliness class	Class100@≥0.5μm			
Average airflow speed	0.3~0.6m/s adjustable			
Noise	≤62dB(A)			
Vibration in Half-Peak	≤3μm	≤4μm	≤3μm	≤4μm
Illumination	≥ 300LX			
Power	AC220V/50Hz			
Max power consumption	0.4	0.8	0.4	0.8
Weight	110	200	110	200
Outer width	900	1760	900	1760
Depth	700			
Out Height	1450			
Work zone width	820	1680	820	1380
Work zone depth	480			
Work zone height	600			
Hepa filter dimension and quantity	820x600x50x1	820x600x50x2	850x600x50x1	820x600x50x2
Fluorescent lamp spec and quantity	20wx1	40wx1	20wx1/20wx1	40wx1/40wx1
Number of operating personnel	Single staff	Two staffs	Single staff	Two staffs

Pass box

Application

Widely used in electronics, biology, pharmacy, hospitals, food processing, LCD, industries, which requires relatively high cleanliness operation condition, the clean work table is a universal device for topo-purification and cut of exterior air flow.

Material & Features

- Stainless steel panels made, surface spray-paint treated or direct st/st material.
- Smooth and clean stainless steel surface
- The device can be optional with standard, electronic lock or mechanical lock types, with optional ultraviolet sterilization or lock bar.

Technical Contrast of General Type

Name	Linkage lock pass box		Air shower pass box	
Model	FRS-CD-1	FRS-CD-2	FRS-FCD-1	FRS-FCD-2
O.D (Outer dimension)	685x400x590	785x600x690	900x900x600	1100x1300x600
O.D (Internal dimension)	500x400x500	600x600x600	660x600x600	800x1000x600