Cinriwa

Liaoning Cinriwa Industry Cleaning Equipment Co.，Ltd

www.cinriwa.com

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PART 01

ABOUT US

COMPANY PROFILE

Cinriwa

Liaoning Cinriwa Industry Cleaning Equipment Co.，Ltd

Liaoning Cinriwa Industry Cleaning Equipment Co., Ltd. is located beside the beautiful Yalu River bank, is a professional production of industrial air filtration and purification products of professional enterprises, providing industrial air filtration overall solutions, specializing in the production of industrial grade primary, medium and high efficiency filters and related equipment.
Main production and sales are as follows:
Product category: Primary filter/Medium filter/sub-high efficiency filter/High efficiency filter and other products
Product level: G1-G4, F5-F9, H10-H14, U15
Main products: filter cotton/patio cotton, paint mesh/glass fiber felt activated carbon felt plate filter Corrugated filter bag filter with partition/no partition filter, high air volume filter, high temperature filter, high temperature high efficiency filter, shaped filter and custom filter.
"Win-win cooperation, pragmatic innovation" is the company's core value, all staff adhering to the integrity, pragmatic, dedication, innovation management philosophy, in accordance with the ISO9001:2012 international quality system requirements strictly implement production and management.

It is mainly used in refrigeration and heating and air conditioning and ventilation systems at room temperature, especially in places where air cleanliness is required, such as electronics factories, pharmaceutical factories, chemical factories, food factories, automotive spraying/paint spraying equipment factories, semiconductor chip manufacturers and other industries. Our company has customers in various industries, can provide cooperation cases, in a variety of environmental filtration and separation technology has senior experience, the company's staff is willing to work with all customers and friends hand in hand, win-win cooperation.

Value

Manage

Mission

AIM

Organizational Structure

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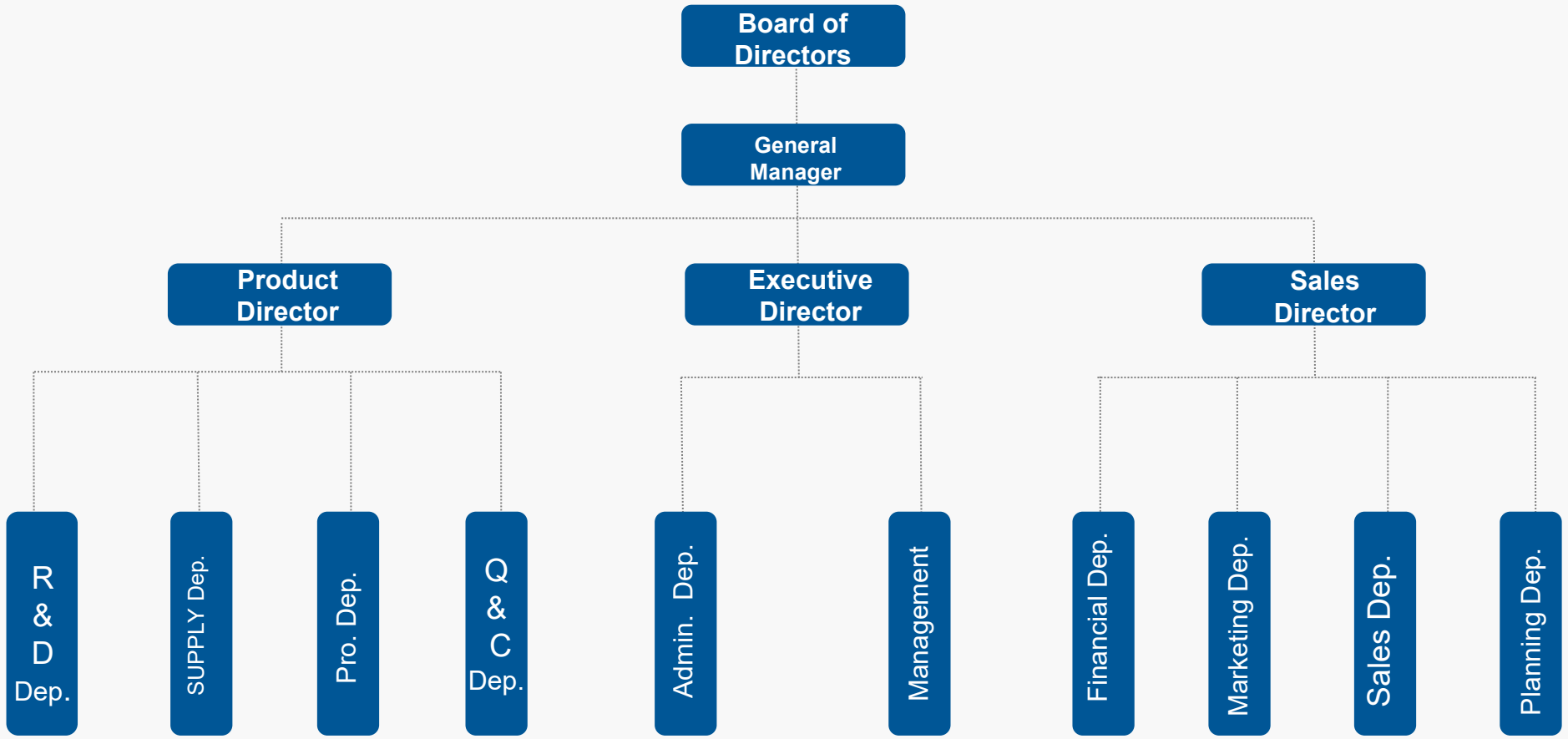

PART 02

Product Introduction

Air Filter Classification

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Filter application		Particulate air filters for general ventilation							EPA, HEPA and ULPA						
Test		EN 779:2012 evaluation of filter performance at 0.944 m^3/s (or nominal air flow)							EN 1822:2009 (Parts 1 to 5) Evaluation of filter performance at nominal air flow						ISO 29463
Suitable for	Group designation	Filter classes	Test dust	Test aerosol	Final pressure drop in Pa	Average arrestance (A_m) compared with test dust in %	Average efficiency (E_m) for particles of 0.4 microns in %	Minimum efficiency for particles 0.4 microns in %	Filter classes	Test aerosol	Integral value of efficiency in the MPPS in %	Integral value of penetration in the MPPS in %	Local value of efficiency in the MPPS in %	Local value of penetration in the MPPS in %	Filter classes
Coarse dust	G	G 1	ASHRAE dust		250	$50 \leq A_m < 65$		-							
		G 2			250	$65 \leq A_m < 80$		-							
		G 3			250	$80 \leq A_m < 90$		-							
		G 4			250	$90 \leq A_m$		-							
Fine dust	M	M 5		DEHS (Di-Ethyl-Hexyl-Sebacate) 0.2–3.0 µm	450	-	$40 \leq E_m < 60$	-							
		M 6			450	-	$60 \leq E_m < 80$	-							
	F	F 7			450	-	$80 \leq E_m < 90$	35							
		F 8			450	-	$90 \leq E_m < 95$	55							
		F 9			450	-	$95 \leq E_m$	70							
Suspended dust	E	EPA: Efficient Particulate Air filter							E 10	DEHS (Di-Ethyl-Hexyl-Sebacate) MPPS 0.1–0.3 µm	≥ 85	≤ 15	-	-	-
									E 11		≥ 95	≤ 5	-	-	ISO 15 E
									E 12		≥ 99.5	≤ 0.5	-	-	ISO 25 E
	H	HEPA: High Efficiency Particulate Air filter							H 13		≥ 99.95	≤ 0.05	≥ 99.75	≤ 0.25	ISO 35 H
									H 14		≥ 99.995	≤ 0.005	≥ 99.975	≤ 0.025	ISO 45 H
	U	ULPA: Ultra Low Penetration Air filter							U 15		≥ 99.9995	≤ 0.0005	≥ 99.9975	≤ 0.0025	ISO 55 U
									U 16		≥ 99.99995	≤ 0.00005	≥ 99.99975	≤ 0.00025	ISO 65 U
									U 17		≥ 99.999995	≤ 0.000005	≥ 99.9999	≤ 0.0001	ISO 75 U

1st filter stage (prefiltration)

2nd filter stage (fine filtration)

3rd filter stage (final filtration)

Service Introduction

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Air Conditioning Field

HVAC means Heating, Ventilation, Air Conditioning, refrigeration system, commonly known as HVAC in China, mainly for indoor air conditioning and purification

Automotive Field

The painting line of the car is from Primer coating - clear coating - base coating, the car body can be withdrawn after dozens of process processing. Each treatment process requires a relative spray filtration device. To achieve the removal of floating dust residue, oil stains and rust, to ensure the uniformity and quality of the actual effect of car body coating.

Medical Field

1. Positive pressure operating room cleaning system, operating room laminar flow purification
2. Negative pressure infection ward system
3. Air filtration in the common areas of the hospital
4. ICU ward and other air filtration requirements
5. Hundred-grade or 10,000-grade filtration in the workshop or laboratory of the pharmaceutical factory

Food Field

Food and beverage dust-free aseptic production workshop In order to maintain the clean and aseptic production of products, it is necessary to equiped wih pre /medium /high Efficiency filters

Paint Stop Filter

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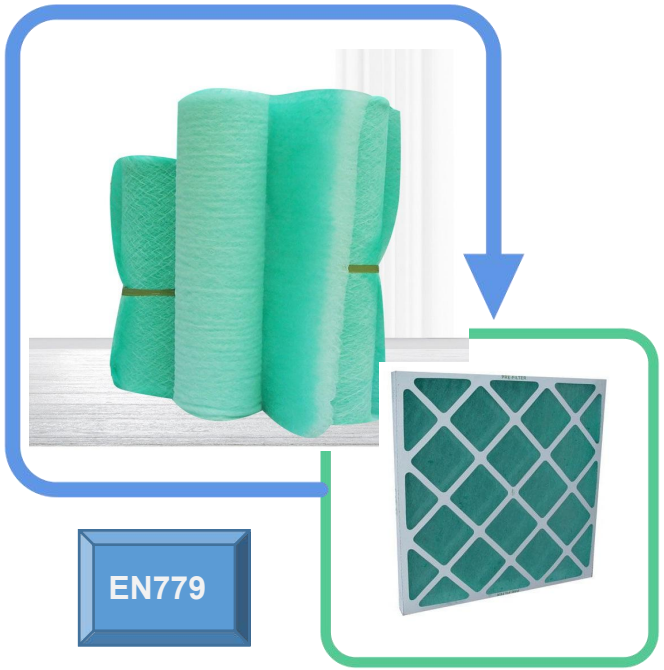

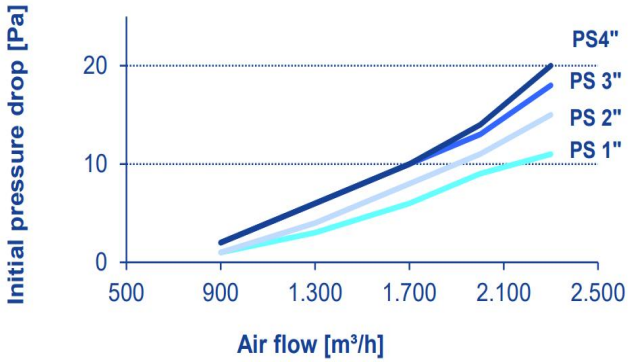

Product Introduction

In the heat recovery system and the surface coating of high-quality paint filtration use, the gradual density of the fluffy state of the composite continuous glass fiber monofilament, high particle capture rate and long service life, good compressibility, to ensure its stability, more conducive to the storage of oil mist and dust. Application: It is widely used in steel, electronics, chemicals, automobiles, home appliances, spraying and various air conditioning and ventilation systems. The surface is green and white fluffy body or pure white fluffy body.

Standard size: 2mx20m 1mx20m

Test: EN779 ANSIV/ASHRAE 52.1

Fire resistance rating: DIN 53438 F1

	PS Filter 1”	PS Filter 2”	PS Filter 3”	PS Filter 4”
Weight	160-180g/㎡	220-240g/㎡	270g/㎡	320g/㎡
Thickness	30mm	50mm	70mm	100mm
Air volume	3780㎡/h	3280㎡/h	3780㎡/h	4150㎡/h
Initial resistance	15Pa	15Pa	15Pa	20Pa
Suggested final resistance	180Pa	230Pa	250Pa	250Pa
Capture efficiency	76.60%	76.60%	76.60%	95.0%
Wind speed	1.05m/s	1.5m/s	1.05m/s	0.65m/s
Dust capacity	2430g/㎡	3930g/㎡	4330g/㎡	7350g/㎡
Maximum temperature	180℃	180℃	180℃	180℃
Filtration grade	G2	G3	G3	G4

High Temperature Filter felt
High Temperature

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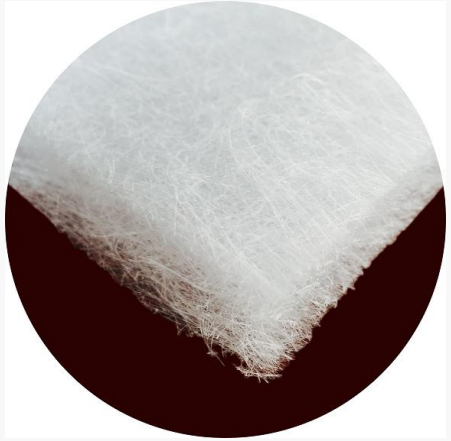


Minimum temperature 250℃

High Temperature Glassfiber Felt

High temperature resistant glass fiber felt is made of long glass fiber, which is uniformly laminated in a non-fabric way, and the air outlet surface is specially treated by hot ironed.
Product features: good fiber strength, well elasticity, does not affect the dust capacity due to wind resistance ambassador filter material compression together, good flame retardant performance (never burn), up to A class flame retardant national standard, fire insoluble drops, no carbon accumulation, no shrinkage, no deformation, good chemical property, strong temperature resistance, low moisture absorption, long service life. 20mm-50mm thickness can be customized.
Product use: general high temperature dust removal filtration treatment; Use hot air type high temperature oven; Furniture factory, automobile factory, painting factory high temperature furnace use; The high flue and hot air filtration of spray painting plants, electric arc furnaces, oil boilers and incinerators can not only effectively filter oil and dust, but also resist chemical erosion of harmful fumes.

High Temperature Filter

The high temperature resistant filter board is made of glass fiber filament fiber filter material, plus the filter screen and the outer frame, which can prevent the fiber from breaking and falling off, and has the characteristics of high temperature resistance, high efficiency and low resistance.

Product structure:

☑ Aluminum alloy frame or galvanized sheet frame

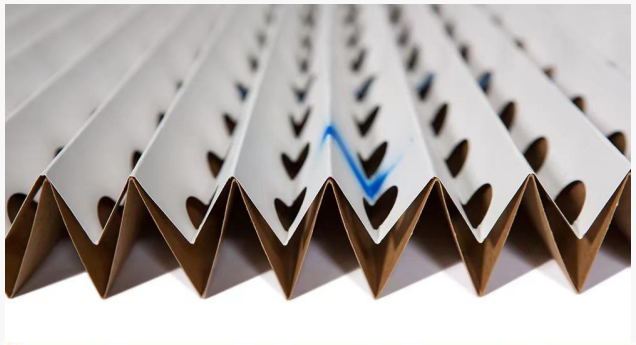
☑ The outlet surface is fixed with tension reinforcement to enhance the stability of the filter material

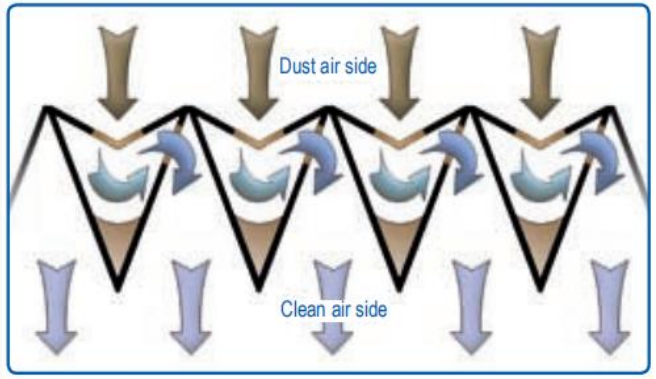
☑ The filter can be laid flat or folded into a pleated form

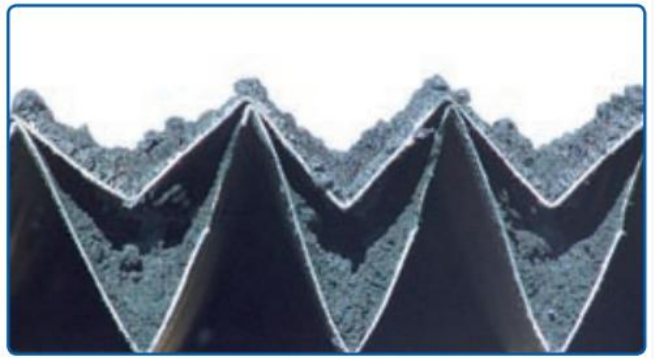
☑ Temperature resistant 250° C

Spec. mm	Velocity m/s	Inital Pressure Pa	Final Pressure Pa	Arrestance Efficiency %	Dust Capacity g/㎡	Temp. Resistance ° C
500*500*20	1.0*2.0	20	200	80	80	250
500*500*46	1.0*2.0	20	200	80	120	250

Dry Paint Filter Paper



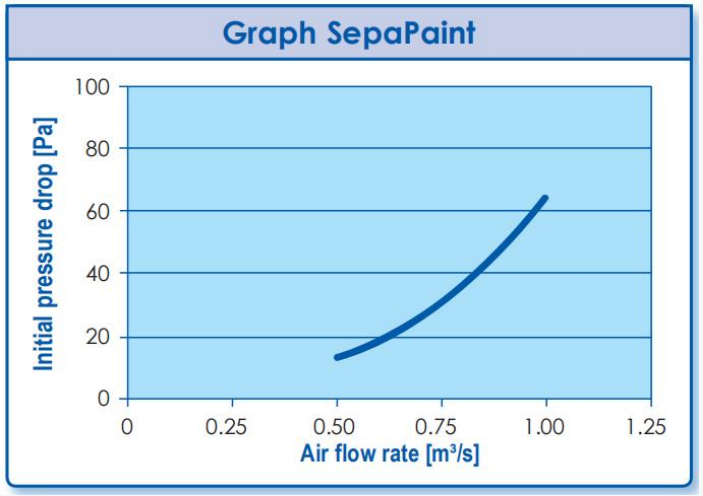




Product Introduction

Dry filter paper, also known as organ paper due to its appearance similar to the accordion, was originally developed in 1965 by Andreae of Switzerland
The invention is mainly used in the filtration production environment of dry powder spray, and is not suitable for wet spray. Its efficacy depends on the inertial and physical motion of the free molecule is captured. Our company is the domestic authorized agent of Andreae brand, products are directly imported after processing and sales, brand strength is trustworthy.

Media	Kraft paper + inner rope
Size Option	0.75m X 10m 0.9m X 10 m 1m X 10m 1.2m X 10m
Thickness	50mm-60mm
Pleats Distance	5cm
Hole Size	Ø 20mm
Air Velocity	0.5m/s-1m/s
Initial Pressure Drop	18 (Pa)
FInal Pressure Drop	65 (Pa))
Dust Holding Capacity	10-22kgs/sqm
Efficiency	G4 EN779 85-98%



Synthetic Filter Cotton

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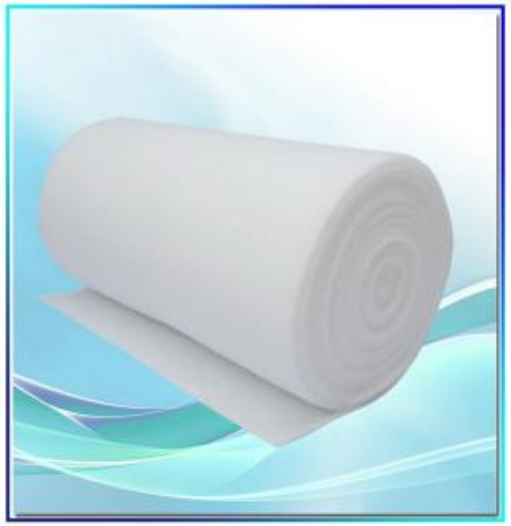
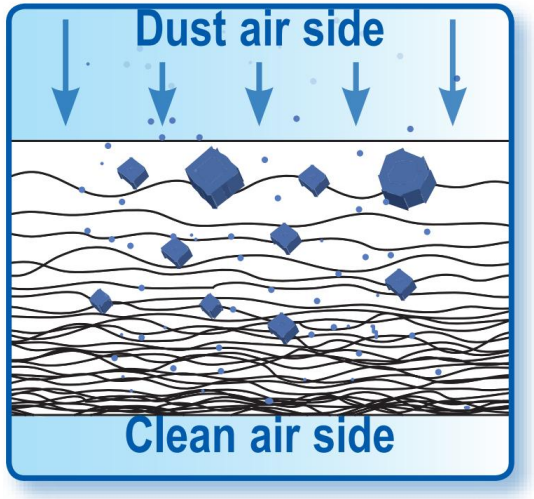
EN779





Product Introduction

Synthetic fiber filter cotton increases the fracture resistance of the fine fiber layer, along the direction of the gas stream fiber layer density gradually increased, high tensile strength, low resistance, after spray glue or dip glue treatment, due to high temperature, powder completely permeate the medium to avoid fiber fracture and fall off, while making dust particles can not pass. The main body is composed of anti-volatile solvent, and does not contain silicone, top cotton air surface covered with polyester grid weaving, and can guide the air distribution evenly

Product application: Mainly used in automobile spray, paint workshop, assembly workshop ceiling surface

Material: 100% synthetic fiber + solid glue + mesh or bonded fabric

Primary level: G2 G3 G4

Secondary grade: F5 F6 F7

Thickness: 5mm-25mm

Standard size: 2mx20 1mx20m

Test: ANSV/ASHRAE 52.1 /EN779

Fire resistance grade: D/N 53438- F1

type	thickness mm	Wind speed m/s	Initial resistance Pa	Final resistance Pa	efficiency%	Dust capacity g/㎡	Temperature resistance ℃	humidness %
G2	10	3.0	20	120	73	320	120℃	100
G3	15	2.5	20	200	85	480	120℃	100
G3	20	2.5	25	200	85	500	120℃	100
G4	10	2.5	25	200	92	430	120℃	100
G4	15	2.5	30	200	92	450	120℃	100
G4	20	2.0	30	200	92	500	120℃	100
F5	20	2.0	40	250	98	500	120℃	100
F5	25	2.0	40	250	98	500	120℃	100

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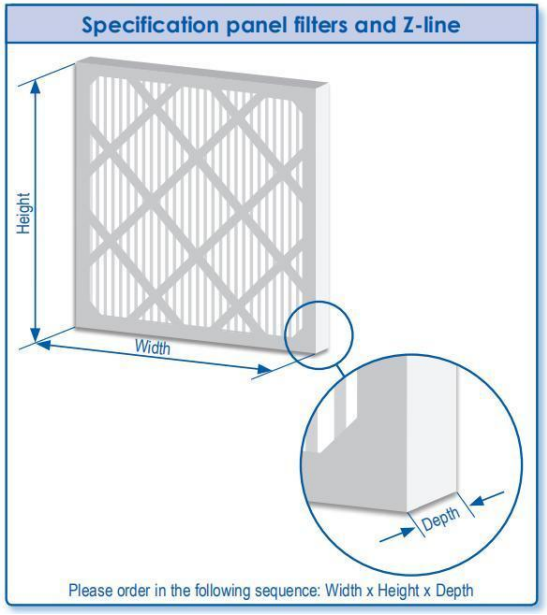


Product Introduction

Suitable for pre-filtered air filtration procedures, large dust capacity to meet the filter area, low initial resistance, flame retardant synthetic fiber as a medium, in line with European standard cardboard frame easy to handle, reduce costs and no pollution.

Application: air conditioning and ventilation system pre-filtration, large air compressor pre-filtration, clean room return air filtration, local high efficiency filtration device pre-filtration.

Grade : EN779 G4 /Merv 8

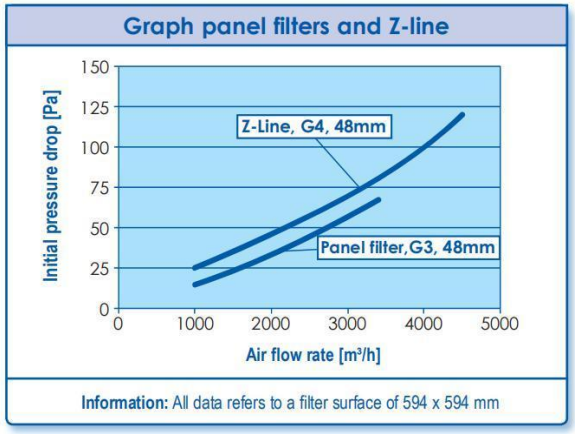
Average capture rate: 90%≤E

Final pressure drop :250pa

Maximum operating temperature :80℃

Frame material: waterproof cardboard

Media: non-woven cotton and synthetic fiber



Main feature

Size can be processed according to user requirements

Cheap, light weight, good versatility, compact structure,easy disposable.

EN779

Disposable Filter

Data Sheet

Nominal Size		Rated Air Flow			300E		200E		100E		Rated Average	
Inches	mm	300FPM	500 FPM	625 FPM	Pleats	G.Media Area sq.ft	Pleats	G.Media Area sq.ft	Pleats	G.Media Area sq.ft	Eff	Arrestance
12x24x1	305x610x25	600	1000	-	14	3.9	-	-	-	-	25-30	90-92
16x20x1	406x508x25	650	1100	-	20	4.7	-	-	-	-	25-30	90-92
16x25x1	406x635x25	850	1400	-	20	5.9	-	-	-	-	25-30	90-92
20x20x1	508x508x25	850	1400	-	24	5.6	-	-	-	-	25-30	90-92
20x25x1	508x635x25	1050	1750	-	24	7	-	-	-	-	25-30	90-92
24x24x1	610x610x25	1200	2000	-	28	7.9	-	-	-	-	25-30	90-92
12x24x2	305x610x45	600	1000	1250	14	9.2	11	6.8	7	5.1	25-30	90-92
16x20x2	406x508x45	650	1100	1400	19	9.9	14	7.2	10	5.3	25-30	90-92
16x25x2	406x635x45	850	1400	1750	19	12.5	14	9	10	6.7	25-30	90-92
18x24x2	457x610x45	900	1500	1900	21	13	16	9.3	11	7	25-30	90-92
20x20x2	508x508x45	850	1400	1750	23	12.2	17	8.7	12	6.4	25-30	90-92
20x24x2	508x610x45	1000	1650	2100	23	14.9	17	10.5	12	8	25-30	90-92
20x25x2	508x635x45	1050	1750	2175	23	15.3	17	10.9	12	7.7	25-30	90-92
24x24x2	610x610x45	1200	2000	2500	28	17.6	21	13	15	10	25-30	90-92
12x24x4	305x610x95	600	1000	1250	10	12.8	8	10.3	7	9	25-30	90-92
16x20x4	406x508x95	650	1100	1400	14	13.9	12	12.2	10	10.8	25-30	90-92
16x25x4	406x635x95	850	1400	1750	14	17.4	12	16	10	13.5	25-30	90-92
18x24x4	457x610x95	900	1500	1900	16	19.3	14	16.7	11	14.2	25-30	90-92
20x20x4	508x508x95	850	1400	1750	17	18.2	15	15	12	12.9	25-30	90-92
20x25x4	508x635x95	1050	1750	2150	17	22.7	15	18.7	12	16.1	25-30	90-92
24x24x4	610x610x95	1200	2000	2500	21	27	18	23.1	15	19.4	25-30	90-92
29x25x4	737x635x95	1500	2500	3150	26	33.4	23	28.9	18	24.2	25-30	90-92

Pre Filter

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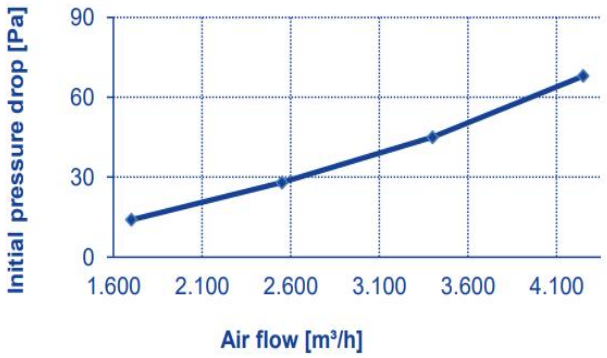
Product Introduction

Suitable for pre-filtered air filtration procedures, large dust capacity to meet the filter area, low initial resistance, flame retardant synthetic fiber as a medium, in line with European standard cardboard frame easy to handle, reduce costs and no pollution.
Application: air conditioning and ventilation system pre-filtration, large air compressor pre-filtration, clean room return air filtration, local high efficiency filtration device pre-filtration.

Frame selection: galvanized frame, aluminum alloy, stainless steel
Structure selection: Plain type,
Pleated type (aluminum frame/galvanized box)
Snap bone type

EN779



Dimension mm	Rated Air Flow m³/h	Initial Resistant Pa	Final Resistance Pa	Filter Area m²	Efficiency %
595×595×45	3400	≤ 50	220-230	1.96	85-90
290×595×45	1700	≤ 50	220-230	1	85-90
595×595×90	3400	≤ 75	230-240	1.96	88-92
290×595×90	1700	≤ 75	230-240	1	88-92

Air Conditioning Filter

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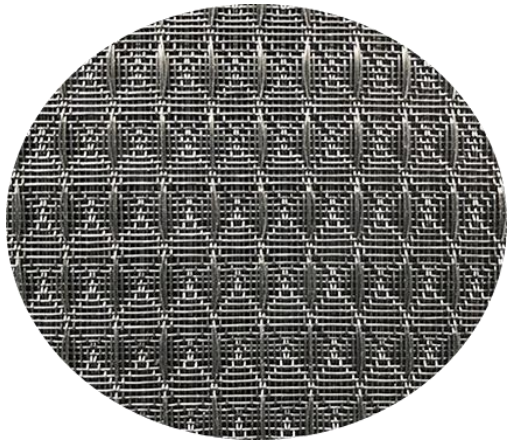

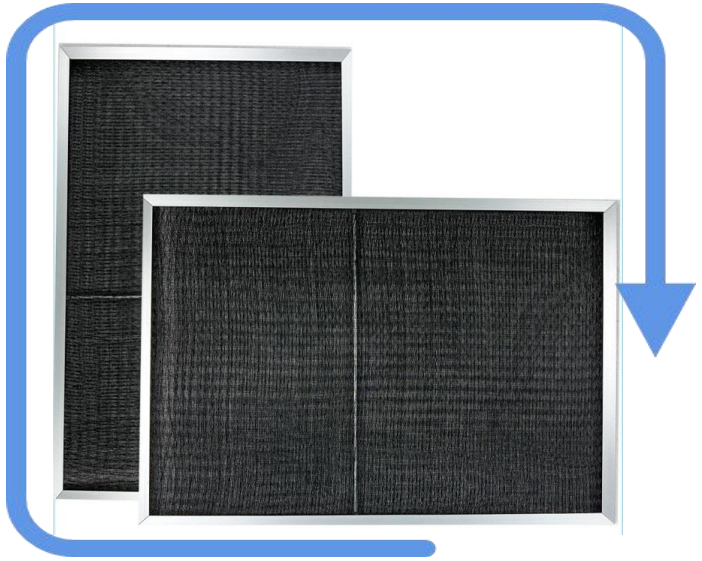

Product Introduction

This product is specially used in industrial and commercial heating, ventilation and air conditioning systems, such as office buildings, conference rooms, hospitals, shopping malls, stadiums, airports and other large civil buildings ventilation and air conditioning systems; Centralized ventilation and air conditioning system of general industrial plant; Clean centralized ventilation and air conditioning system of the initial effect filtration and return air filtration.

Special points:

* Light plate structure,
* Reusable metal aluminum frame and washable filter media
* Imported synthetic fiber filter material is braided by polyamide monofilament.
* High strength, wear resistance, long service life
* Low initial resistance
* Strong dust resistance

External dimension(W*H*D)	Initial resistance（Pa)	efficiency	frame
595X592X10	15	Gravimetric method 65%-80% EN779 Standard	Aluminium
595X592X15	15		Aluminium
595X592X21	15		Aluminium

Activated Carbon Cotton &Filter

Cinriwa

EN779

Product introduction

Activated carbon cotton has high adsorption efficiency, fast adsorption desorption efficiency, high adsorption capacity, high recovery capacity, low resistance, high capture efficiency of suspended particles, can be washed, especially suitable for large air volume, low resistance of air filtration and water circulation facilities (such as aquarium) filtration, is the ideal material for post-stage air filtration and water filtration.
It can be used to make air filters, which can absorb and filter O3 SO2 NO2 and harmful gases such as odor, poison gas, flue gas in the air, and can be used for room, kitchenware and other polluted indoor air purification.

Material product features:
* Can effectively filter dust, odor and organic pollutants in the air
* Large specific surface area, well-developed pores, high adsorption performance;
* Remove fine dust, paint mist, odor, and volatile organic solvent pollutants.

1

Use:
①Solvent recovery: Parabenes, ketones, esters, petroleum can be adsorbed and recovered:
②Air purification: can absorb and filter the odor, body odor, smoke, gas, O3, SO2, NOX, etc.;
③ Water purification: can remove heavy metal ions, carcinogens, odor, mildew, bacteria and decolorization in water; Can be used for tap water, food industry water and industrial pure water treatment.
④ Environmental protection project: waste gas and sewage treatment;
⑤ Gas masks, anti-poison clothes, cigarette filters, etc.;
⑥ Noble metal extraction or recovery, adsorption of radioactive substances, can also be used as a catalyst carrier, gas chromatography stationary phase;
⑦ Used in medicine for wrapping tape, acute antidote, artificial kidney, etc.;
Electronic and energy applications, such as high-capacity capacitors, batteries, etc.;
⑨ High temperature and insulation materials.

Activated Carbon Filter

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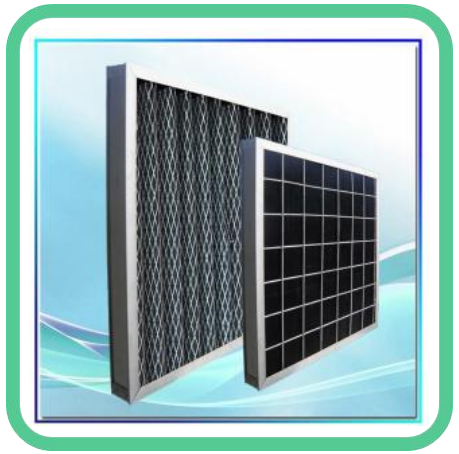


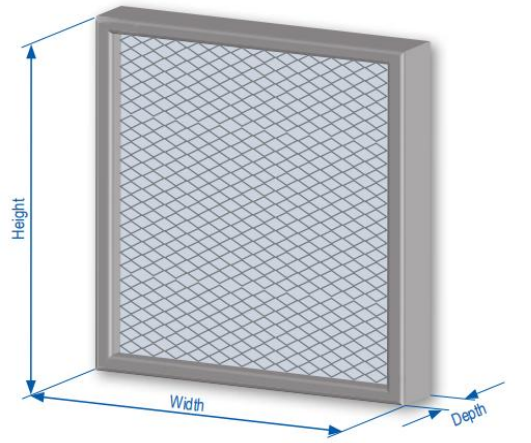
Parameter

Frame	Metal, cardboard
Filtering Media	Activated carbon cotton
Max.Operating Temperature	50℃
Max.Relative Humudity	70%
Final Pressure Drop	250Pa

Large filter surface, comp structure low installatio depth

High dust capacity high airflow capacity low pressure drop high economic efficiency decreace energy operating costs

Non- pollutant emission high burst pressure dust non-migrate installed vertically



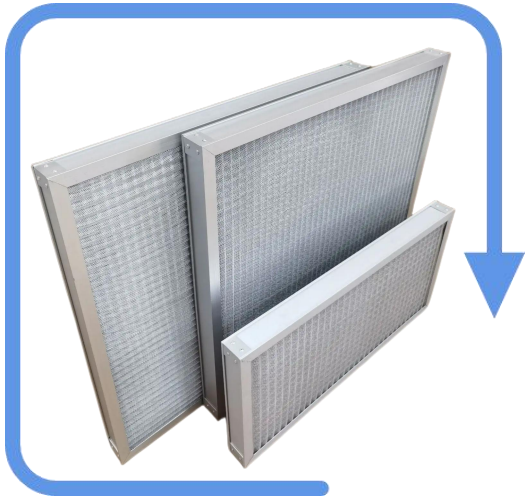
Please order in the following sequence: Width x Height x Depth

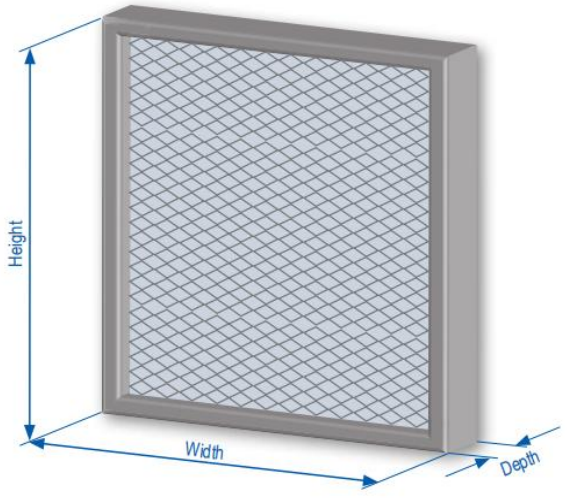
Efficiency	Width	Height	Depth	Airflow	Pressure Drop	Filtering Surface
	mm	mm	mm	m³/h	Pa	㎡
G4	287	592	46	1000	50	0.65
G4	490	592	46	1700	50	0.9
G4	592	592	46	2000	50	1.2
G4	287	592	90	1000	40	1
G4	490	592	90	1700	40	1.8
G4	592	592	90	2000	40	2

Metal mesh filter

Cinriwa

EN779





Please order in the following sequence: Width x Height x Depth

Product Introduction

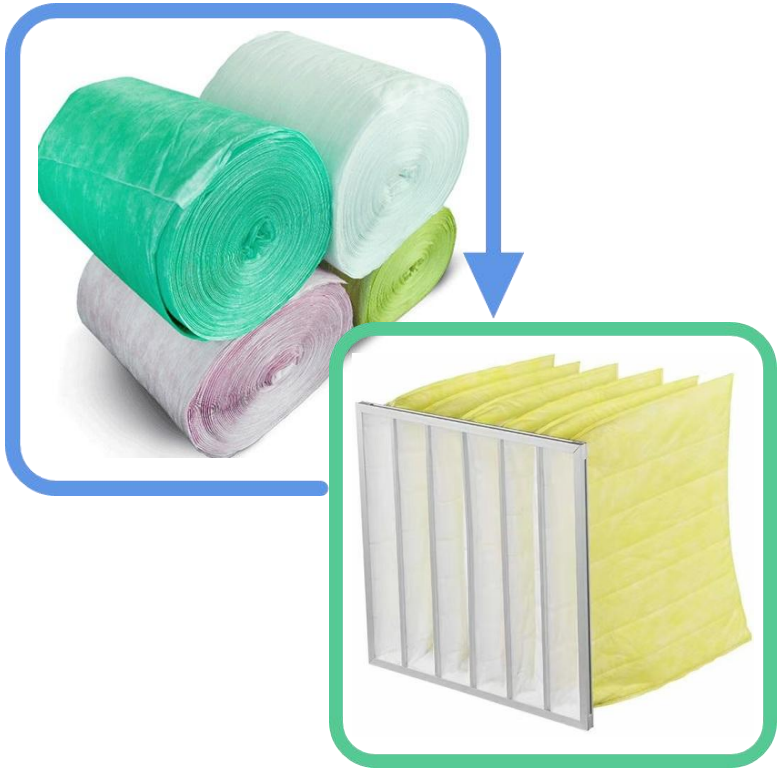
Metal mesh filters are specially designed for use in industrial, commercial, heating, ventilation and air conditioning systems. Its precision aluminum mesh structure creates a high dust capacity and unique temperature resistance; Can reduce the frequency of normal cleaning and maintenance of the filter; Greatly reduce the risk of fire; Easy heat dissipation extends the life of the fan motor

Efficiency	Dimension	Filter area	Airflow Capacity m³/h @ Resistance Pa			
	mm	㎡	2.5m/sec	Pa	3.2m/sec	Pa
G2	500x500x24	0.25	2400	35	3000	45
G2	500x625x24	0.3	3000	35	3700	45
G2	592x287x24	0.17	1700	35	2100	45
G2	490x592x24	0.29	2800	35	3500	45
G2	592x592x24	0.35	3400	35	4200	45
G2	500x500x45	0.25	2400	45	3000	55
G2	500x625x45	0.3	3000	45	3700	55
G2	592x287x45	0.17	1700	45	2100	55
G2	490x592x45	0.29	2800	45	3500	55
G2	592x592x45	0.35	3400	45	4200	55
G2	500x500x95	1.2	2400	15	3000	25
G2	500x625x95	1.4	3000	15	3700	25
G2	592x287x95	0.8	1700	15	2100	25
G2	490x592x95	1.2	2800	15	3500	25
G2	592x592x95	1.6	3400	15	4200	25

Synthetic Roll Filter

Cinriwa

EN779



Product introduction

Melt-blown bag material is mainly made of two-component melt-blown composite non-woven fabric, the advantages are non-toxic, tasteless, one-time use, reasonable filter structure, long service life, low resistance, high efficiency, stable efficiency, uniform appearance and color. Application: It is widely used in steel, electronics, chemicals, automobiles, home appliances, spraying and various air conditioning and ventilation systems. Our company adopts all two-component melt-blown A grade to ensure quality.

P.N	Color	Velocity m/s	Average Efficiency（%） 0.5um	1um	2um	Pressure Pa	Dust Capacity g/m³	Weight g/㎡
CINRWA-45	White/B.Y	0.35	30	60	72	40	170	150
CINRWA-65	Green	0.3	35	85	90	50	150	155
CINRWA-85	Pink	0.15	42	90	95	55	120	165
CINRWA-90	Yellow	0.1	90	95	100	65	110	210
CINRWA-95	White	0.1	90	95	100	65	110	210

General Color classification

F5 filter bag - brown yellow

F6 filter bag - green

F7 filter bag - pink color

F8 filter bag -- yellow

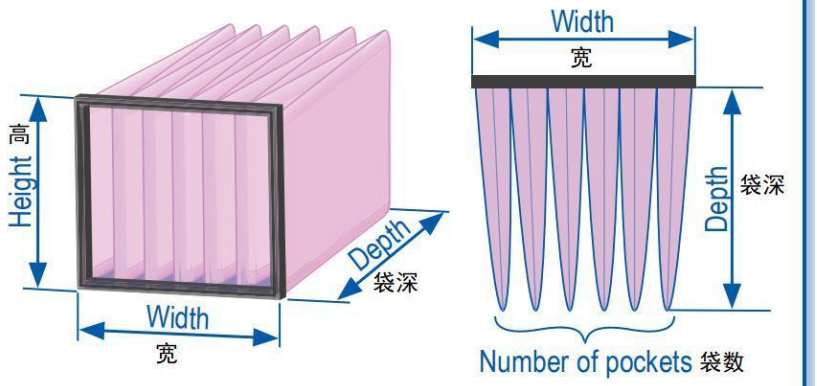
F9 filter bag - white

Polyester fiber filter bag with isolated air duct, all white

Multibags Melton Blown Pocket Filter

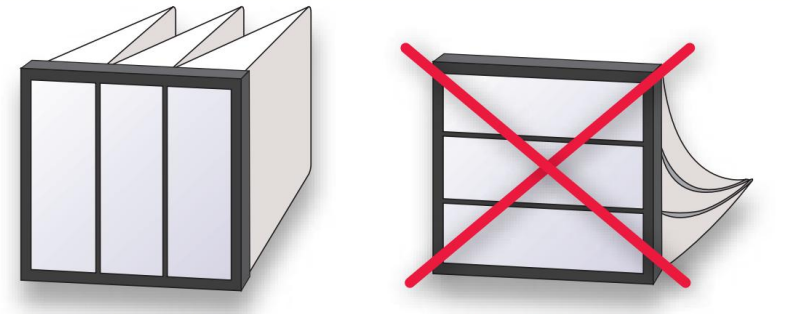
Cinriwa

Specification pocket filter fine filtration F7



Please order in the following sequence: Width x Height x Depth

Assembly instruction for correct installation



Correct Installation!
Pockets stand vertically

Incorrect Installation!
Pockets lie horizontally! Pockets below running risk of absorbing condensed water

Pockets must be placed vertically

EN779 Class EN779等级	F5	F6	F7	F8	F9
Average Arrestance	40-60%	60-80%	80-90%	90-95%	>95%
Initial Pressure Drop	35 Pa	65 Pa	85 Pa	95 Pa	125 Pa
Final Pressure Drop	450 Pa				
Max Operating Temperature	80℃				
Max.Relative Humidity Resistance	100%				
Frame	Galvanizhed steel or Aluminum (20-25mm)				
Media	Meltblown or rigid synthetic fiber				
Fire Resistance Class	F1 Din 53438				

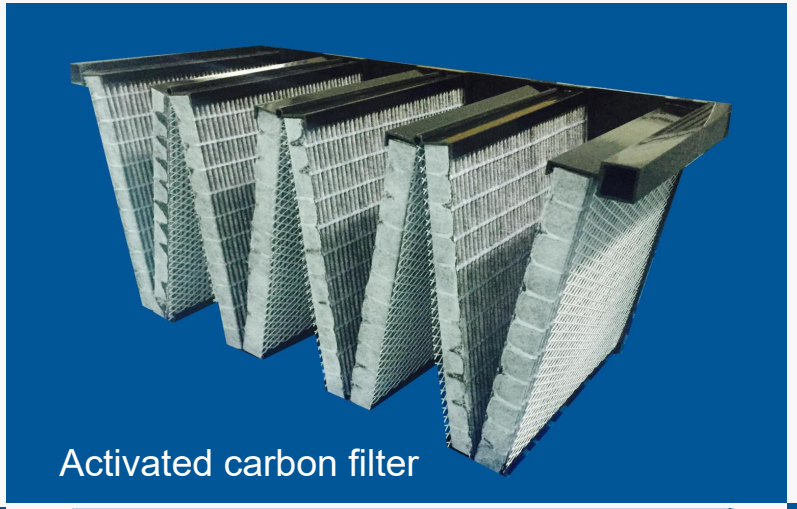
Multibag Melton Blown Pocket Filter

Cinriwa

Efficiency	Width	Height	Depth	Bag Number	Airflow	Pressure Drop	Filtering Surface
	mm	mm	mm		m³/h	Pa	㎡
F5	287	287	535	4	850	45	1.2
F5	287	287	635	4	850	35	1.3
F5	287	592	535	4	1750	45	2.8
F5	287	592	635	4	1750	35	3.4
F5	490	592	535	6	2850	45	4.2
F5	490	592	635	6	2850	35	5
F5	592	592	535	8	3400	45	5.6
F5	592	592	635	8	3400	35	7
F6	287	287	535	4	850	75	1.2
F6	287	287	635	4	850	65	1.3
F6	287	592	535	4	1750	75	2.8
F6	287	592	635	4	1750	65	3.4
F6	490	592	535	6	2850	75	4.2
F6	490	592	635	6	2850	65	5
F6	592	592	535	8	3400	75	5.6
F7	287	287	535	4	850	95	1.2
F7	287	287	635	4	850	85	1.3
F7	287	592	535	4	1750	95	2.8
F7	287	592	635	4	1750	85	3.4
F7	490	592	535	6	2850	95	4.2
F7	490	592	635	6	2850	85	5
F7	592	592	535	8	3400	95	5.6
F7	592	592	635	8	3400	85	7
F8	287	287	535	4	850	105	1.2
F8	287	287	635	4	850	95	1.3
F8	287	592	535	4	1750	105	2.8
F8	287	592	635	4	1750	95	3.4
F8	490	592	535	6	2850	105	4.2
F8	490	592	635	6	2850	95	5
F8	592	592	535	8	3400	105	5.6
F8	592	592	635	8	3400	95	7
F9	287	287	535	4	850	135	1.2
F9	287	287	635	4	850	125	1.3
F9	287	592	535	4	1750	135	2.8
F9	287	592	635	4	1750	125	3.4
F9	490	592	535	6	2850	135	4.2
F9	490	592	635	6	2850	125	5
F9	592	592	535	8	3400	135	5.6
F9	592	592	635	8	3400	125	7

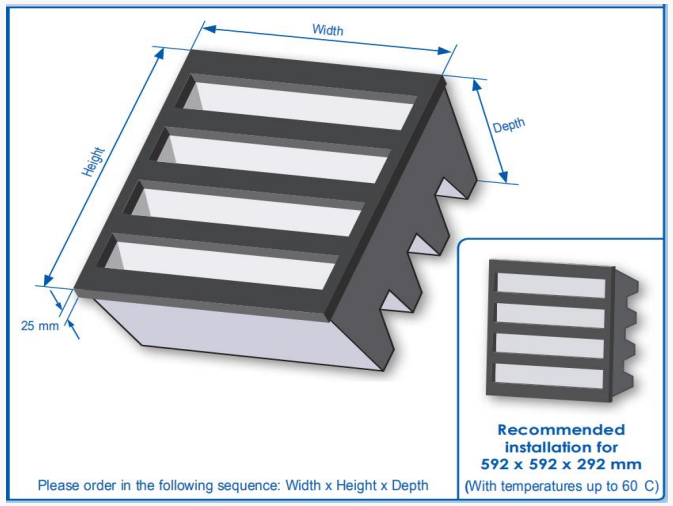
V Bank Compact Filter

Cinriwa



Activated carbon filter

Application: Suitable for pharmaceutical, medical, aseptic room and other ultra-clean environment. V-type compact filter is to remove fine dust pollution from the air, such as fine dust, smoke, steam, pollen, bacteria. In recent years, a large number of these filters have been used for the final filtration of air intake in animal husbandry plants to effectively prevent the spread of plague.



* Product advantages:
* Compact structure,
* Large filter area,
* High dust capacity,
* High airflow capacity,
* Low pressure drop,
* High economic efficiency,
* Reduce energy operating costs

V Bank Compact Filter

Cinriwa

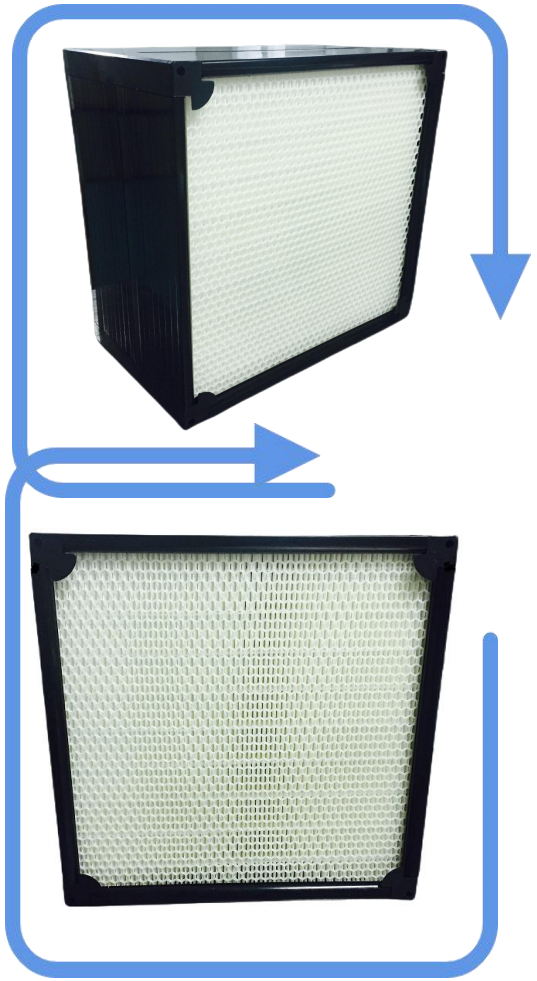
EN779 Class EN779	F6	F7	F8	F9
Average Arrestance	60-80%	80-90%	90-95%	>95%
Initial Pressure Drop	100 Pa	115 Pa	125 Pa	155 Pa
Final Pressure Drop	600 Pa			
Max Operating Temperature	80℃			
Max.Relative Humidity Resistance	100%			
Frame	ABS Plastic ABS			
Media	Micro fiberglass paper in mini pleat design			
Separators	Hot melt glue			

Size	Grade	Airflow	Pressure Drop	Filtering surface
		m3/h	Pa	㎡
287x592x292 mm	F6	2125	100	9
490x592x292mm		3500	100	15
592x592x292mm		4250	100	18
287x592x292 mm	F8	2125	125	9
490x592x292mm		3500	125	15
592x592x292mm		4250	125	18
287x592x292 mm	F9	2125	155	9
490x592x292mm		3500	155	15
592x592x292mm		4250	155	18

Cassette Filter

Cinriwa

EN779



Product introduction

Box filters offer maximum operational reliability and cost-effectiveness for inlet, exhaust, and recirculated air filtration in air conditioning systems, with stringent requirements for clean air quality, especially under critical local conditions, large flows, limited available space, and when process reliability does not tolerate compromises, for example. The deepest folding method of the filter media produced by the hot stamping process allows the entire filter area to be utilized, with a uniform dust load and a uniform medium speed, and the average pressure is reduced. In the air intake filtration of turbomachinery, in industrial processes (chemical, pharmaceutical, food and beverage, optical, electronics, surface treatment technologies, etc.), the high dust holding capacity of the box filter, coupled with the low pressure drop and the highest structural stability, ensures cost-effective and reliable operation over a long operating life. At present, it is mainly used for MWM internal combustion engine, with single flange and flangeless structure respectively.

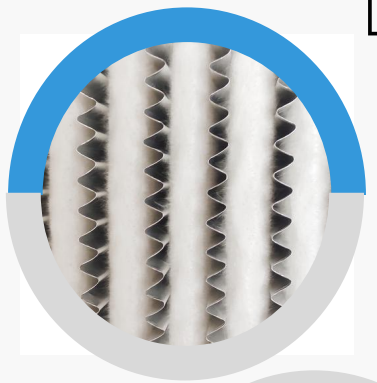
Filter Class	unit	M6	F7	F8	F9
Airflow	m³/h	4250			
Initial PD	Pa	135	140	150	175
Average Efficiency （0.4um）	%	75	86	92	96
Max. Rec. Airflow	m³h	5500			
Rec. Final PD	Pa	650			
Dust Holding Capacity	g	2300	1900	1700	1500

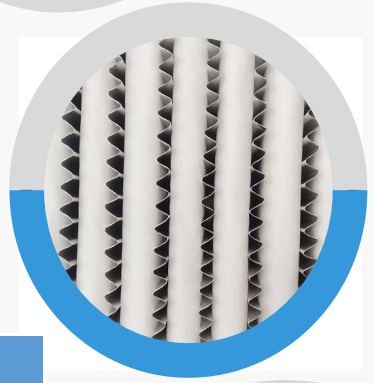
Oil Mist Filter

Cinriwa

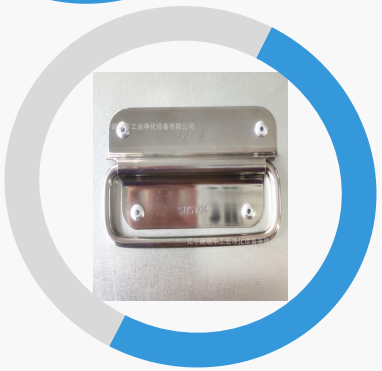
Product Introduction

OMF oil mist filters are designed to handle large amounts of pure oil mist produced during continuous operation and developed for efficient filtration with low maintenance costs. It can be matched with the Nerderman standard OMF 3x4000, with three filter element units, of which the first level unit is made of glass fiber oil absorbing cotton as the filter medium, and the second level unit is made of glass fiber and synthetic fiber four-level filter media synthesis process to achieve F9 level filtration. The third stage filter unit consists of an H13 HEPA filter with a filtration efficiency of 99.95% for MPPS according to EN1822. All OMFs are vertical and can be equipped with handles for easy installation and removal, and the pre-filter unit can be configured as required. Three filter element unit, optional pre-filtration, observe the pressure drop and rise of each layer filter element unit to judge the replacement cycle of the filter element.



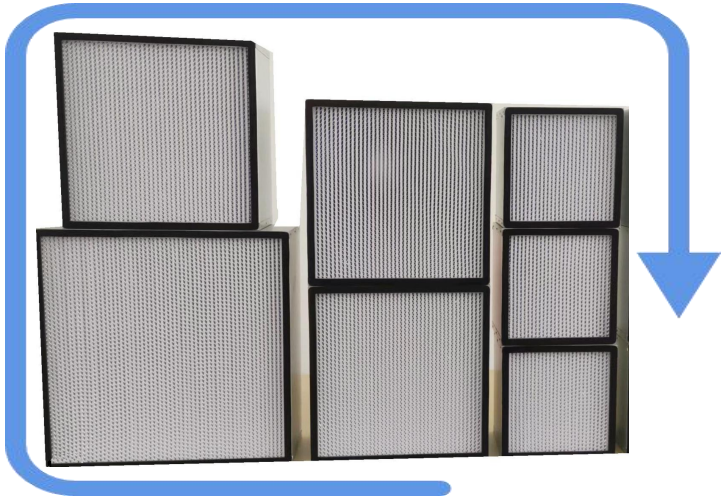


Efficiency	Width mm	Height mm	Depth mm	Airflow m³/h	Pressure Drop Pa	Filtering Surface m²
OMF 1-G4	610/592	610/592	292	3400	90	12
OMF 2-F9	610/592	610/592	292	3400	100	12

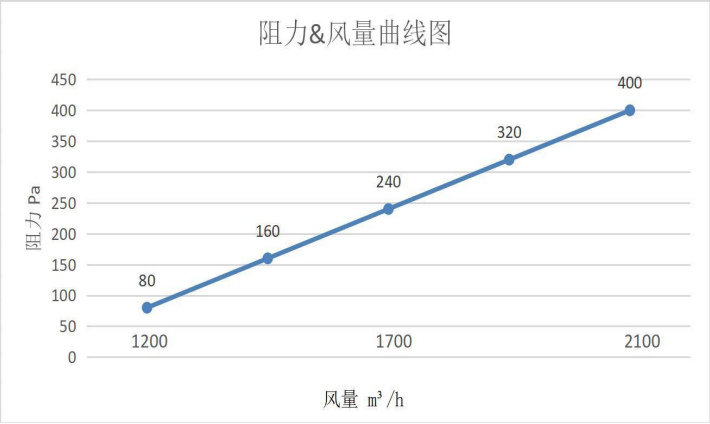


Separator Hepa Filter

Cinriwa



EN1822

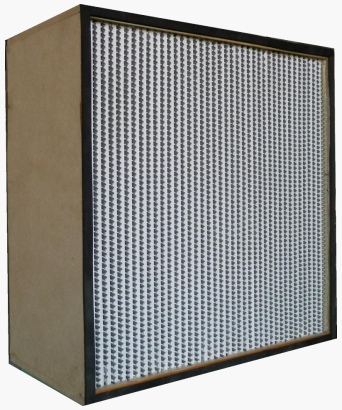


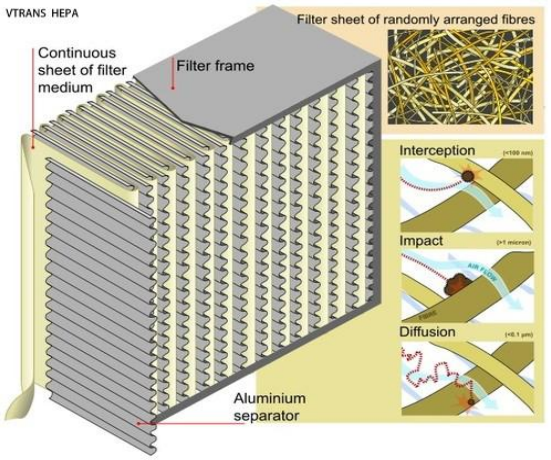
Paper Separator HEPA

No.	Width	Height	Depth	Airflow	Pressure Drop	Filtering Surface
x	mm	mm	mm	m³/h	Pa	m²
1	320	320	220	500	235	4.3
2	484	484	220	1000	235	9.7
3	726	484	220	1500	235	14.6
4	968	484	220	2000	235	19.4
5	315	630	220	750	235	8.3
6	630	630	220	1500	235	16.6
7	945	630	220	2250	235	24.9
8	1260	630	220	3000	235	33.3
9	305	305	150	220	235	2.6
10	305	610	150	425	235	5.1
11	610	610	150	1000	235	10.3
12	915	610	150	1275	235	15.9
13	1220	610	150	1700	235	20.6

Separator Hepa Filter

HEPA-Alum.Separator





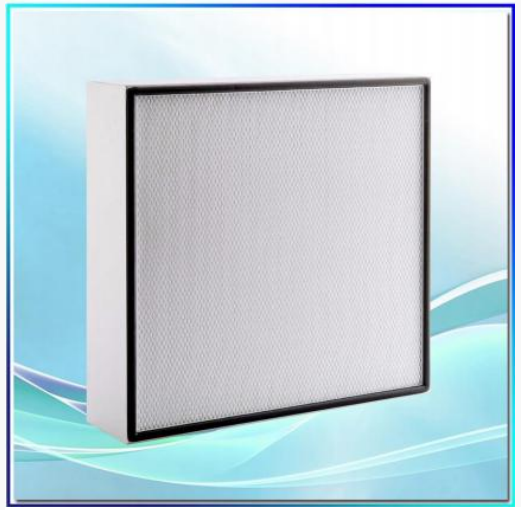
EN1822

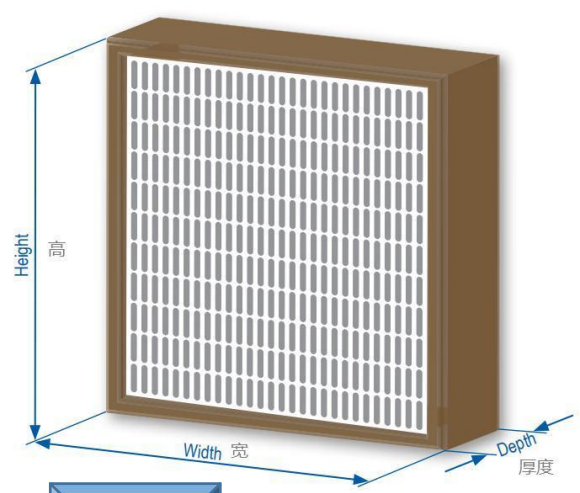
efficiency	breadth mm	Altitude mm	profundity mm	Air volume m³/h	Initial resistance Pa	Filter area ㎡
H11	305	610	292	1000	200	10
H11	610	610	292	2000	200	19
H13	305	610	292	1000	250	10
H13	610	610	292	2000	250	19
H14	305	610	292	1000	280	10
H14	610	610	292	2000	280	19

FILTER CLASS(EN1822)	H10	H13	H14
Efficiency % for MPPS（EN1822）	≥95%	≥99.95%	≥99.995%
Local Efficiency % for MPPS	-	99.75%	99.98%
Recommended Final Pressure Drop	600Pa	600Pa	600Pa
Max.Final Pressure Drop	1000Pa	1000Pa	1000Pa
Continuous Temperature Resistance	80℃	80℃	80℃
Max.Relative Humidity Resistance	100%	100%	100%
Frame	MDF,Galvanized Steel,Stainless Steel		
Media	Microfiber glass Paper		
Gasket	One piece foamed polyurethane		
Fire Resistance Class	K1/F1 according to DIN53438		
TESTING	Each filter individually tested according to EN 1822		

Mini-pleat HEPA Filter

Cinriwa



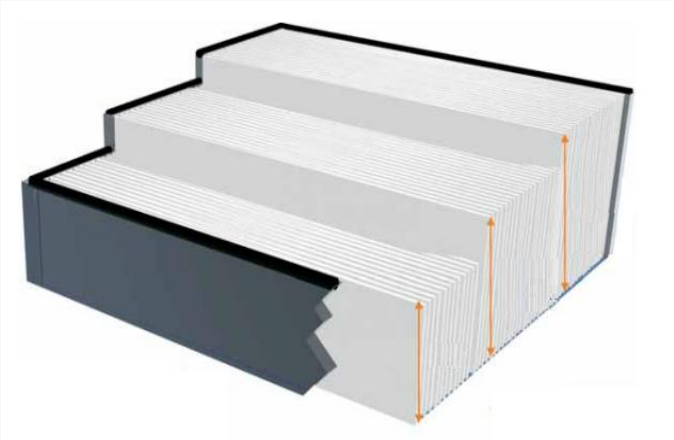


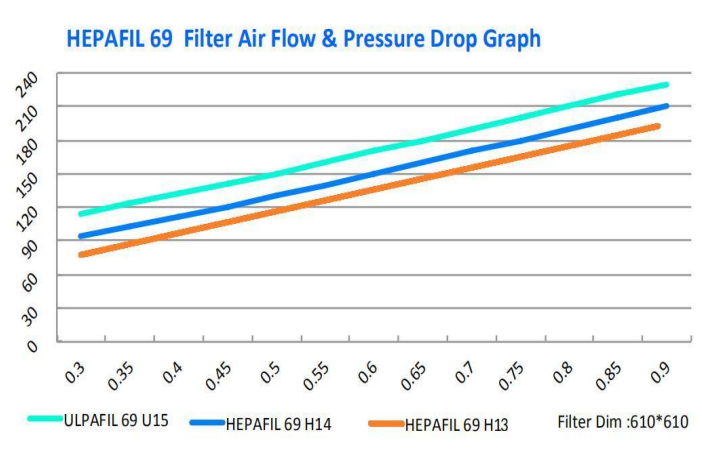
EN1822

Product Introduction

FILTER CLASS(EN1822)	H10	H13	H14	U15
Global Efficiency % for MPPS	≥95%	≥99.95%	≥99.995%	≥99.9995%
Local Efficiency % for MPPS	-	99.75%	99.98%	99.9975%
Recommended Final Pressure Drop	600Pa	600Pa	600Pa	600Pa
Max.Final Pressure Drop	1000Pa	1000Pa	1000Pa	1000Pa
Continuous Temperature Resistance	80℃	80℃	80℃	80℃
Max.Relative Humidity Resistance	100%	100%	100%	100%
Frame	Aluminium and MDF			
Face Guard	Epoxy painted expanded aluminium grids on both sides			
Gasket	One piece foamed polyurethane			
Fire Resistance Class	K1/F1 according to DIN53438			

Mini-pleat HEPA Filter





EN1822

Efficiency	Width	Height	Depth	Pressure Drop	Filtering Surface
	mm	mm	mm	Pa	㎡
H13	305	305	69	110	2.5
H13	457	457	69	110	5.6
H13	305	610	69	110	5.0
H13	610	610	69	110	10.0
H13	762	610	69	110	12.3
H13	914	610	69	110	15.0
H13	1220	610	69	110	20.5
H14	305	305	69	120	2.5
H14	457	457	69	120	5.6
H14	305	610	69	120	5.0
H14	610	610	69	120	10.0
H14	762	610	69	120	12.3
H14	914	610	69	120	15.0
H14	1220	610	69	120	20.5
H13	305	305	90	110	3.7
H13	305	610	90	110	7.5
H13	610	610	90	110	15.4
H13	914	610	90	110	23.2
H13	1220	610	90	110	31.1
H14	305	305	90	120	3.7
H14	305	610	90	120	7.5
H14	610	610	90	120	15.4
H14	914	610	90	120	23.2
H14	1220	610	90	120	31.1

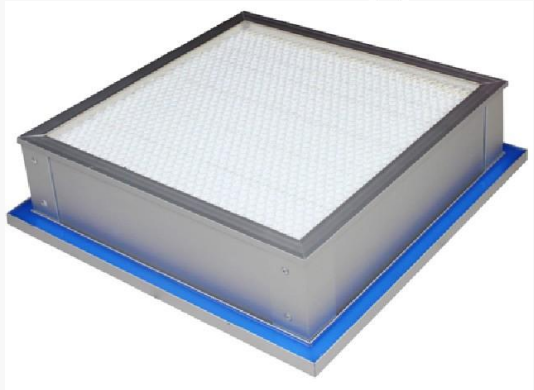
Gel Hepa Filter

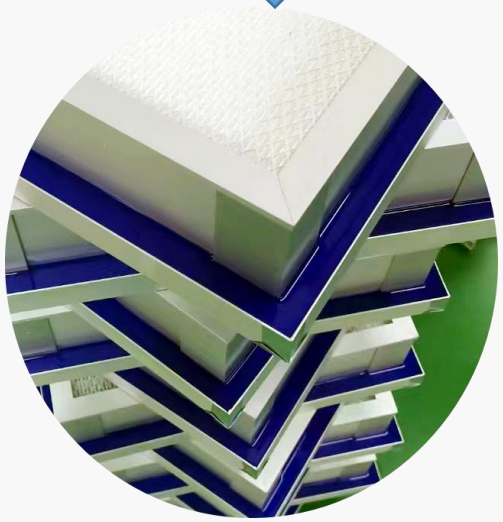
Cinriwa

EN1822

Top tank

Side tank





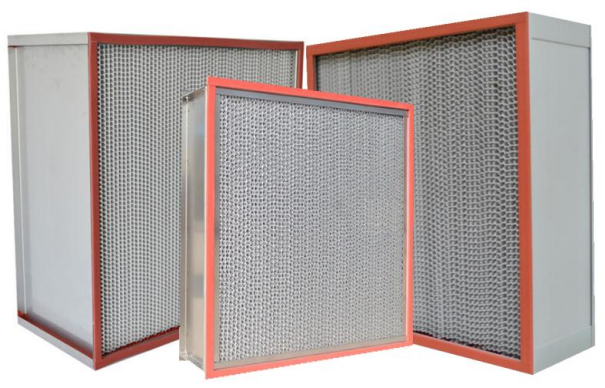
Product Introduction

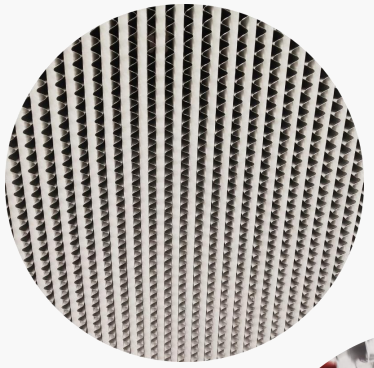
Gel-sealed or fluid-sealed filters have an integral gel-filled groove on the air intake side, ensuring seamless, leak-free installation on the mounting edge. They are compact, lightweight and easy to install, especially in terminal covers and FFU modules. Urethane gel has the characteristics of non-volatile, oil-free, non-toxic and tasteless, and has good sealing stability at room temperature. Gel-sealed HEPA filters are ideal end-filters for industrial clean air filtration, biological cleaning and other purification equipment.

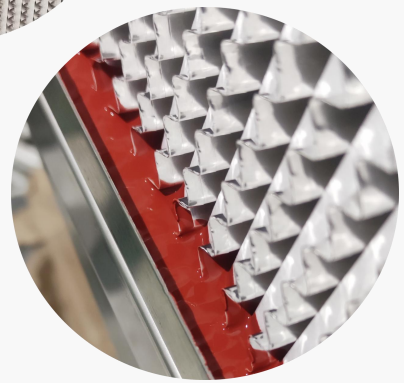
Flange Backward Size(mm)	Outside Size (mm)	Rated Airflow (m3/h)	Initial Resistance (Pa)	Efficiency (%)
Top Gel Type	320X320X93	400	≤ 220	99.99%
	484X484X93	800	≤ 220	99.99%
	630X630X93	1200	≤ 220	99.99%
570x570	610X610X90	1100	≤ 220	99.99%
1170x570	1210X610X90	2200	≤ 220	99.99%
610x305	660X345X90	500	≤ 220	99.99%
610x610	650X660X90	1100	≤ 220	99.99%
762x610	802X650X90	1600	≤ 220	99.99%
915x610	955X650X90	2000	≤ 220	99.99%

High Temperature Compact Filter

Cinriwa





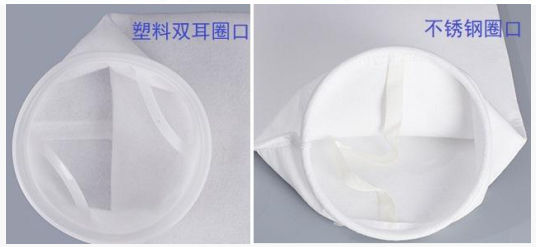


Minimum temperature 250℃

EN779 Class En779	F6	F8	H13
Average Arrestance	60-80%	90-95%	99.95%
Rec. Final PD.	450 Pa		600Pa
Maxi. Final Pressure Drop	600 Pa		800Pa
Max Operating Temperature	250℃		300℃
Frame	Galvanized steel /S304 Stainless steel		
Media	Micro fiberglass paper		
Separators	Corrugated aluminum separators		
Flange Type	Single/ Double/ No.		
Fire Resistance Class	F1 Din 53438		

Efficiency	Width	Height	Depth	Airflow	Pressure Drop	Filtering Surface
	mm	mm	mm	m³/h	Pa	㎡
F6	287	592	150	850	40	3
F6	592	592	150	1800	40	6
F8	287	592	150	850	85	3
F8	592	592	150	1800	85	6
F6	287	592	292	1800	100	6
F6	592	592	292	3400	100	11
F8	287	592	292	1800	150	6
F8	592	592	292	3400	150	11
H13	305	610	150	425	220	5.1
H13	610	610	150	1000	220	10.3
H13	305	610	292	850	220	10.4
H13	610	610	292	1700	220	20.8

Dust Filter Bag



Product introduction

Application: asphalt mixing equipment, biomass power station, chemical and pharmaceutical industry, high temperature dust removal, coal-fired power station, food industry

Product features: For non-ferrous metals and steel production, cement, gypsum and lime industrial thermal waste treatment.

Parameter	PPS Needle Felt	Nomax Needle Felt	P84 Needle Felt	FNS Needle Felt	Glassfiber Needle Felt
Weight (g/㎡)	500	500	500	800	800
Matreial	PPS Staple	Metamax	P84	P84/PTFE	Glass fiber
Thickness(mm)	1.8	2	2	2.5	2.4
Air Permeability(l/㎡/s²)	200-300	200-400	200-300	200-300	200-300
Tensile Strength (N/5X20cm)-Warp	1250	1300	1100	3260	1800
Tensile Strength (N/5X20cm)-Weft	1350	1460	1200	3300	1800
Tensile Elongation(%)-Wrap	40	50	25	10	10
Tensile Elongation(%)-Weft	60	55	35	15	10
Temperature(℃)-Continue	190	204	260	260	240
Temperature(℃)-Instant	220	240	280	300	260
Finishing Treatment	Heating	Heating	PTFE dip	PTFE dip	PTFE dip
	Singeing	Singeing	forming	forming	forming
	Calendering	Calendering	process	process	process

Dust Filter Bag

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Technical parameter

Performance Parameter filter	Polyester Easy Dust Collecting Needle Felt	Polyester Needle Felt	PTFE Coated Needlet Felt	Polyester Needle Felt with Granule Surface Finish	Water and Oil Repelent Needle Felt	Polyester Anti-Statec Needle Felt(yarn)	Polyester Anti-Statec Needle Felt(blend yarn)	PP Needle Felt	Acrylic Needle Felt
Weight (g/㎡)	500	500	500	500	500	500	500	600	500
Matreial	Polyester	Polyester	Polyester	Polyester PTFE	Polyester	Polyester	Polyester/Electric Fiber	PP Needle Felt	Acrylic fibre
Thickness(mm)	1.8	1.8	1.8	2	2	1.8	1.8	2.2	2
Air Permeability(l/㎡/s²)	200-350	200-350	30-60	200-350	150-300	200-300	200-350	100-200	150-300
Tensile Strength (N/5X20cm) -Warp	1300	1000	1000	1200	1200	900	1040	1200	1200
Tensile Strength (N/5X20cm) -Weft	1400	1100	1100	1500	1300	1000	1100	1800	1300
Tensile Elongation(%)-Wrap	<35	<35	<37	<35	<30	<35	<35	<50	<20
Tensile Elongation(%)-Weft	<55	<40	<35	<40	<45	<30	<55	<55	<45
Temperature(℃)-Continue	120	120	130	120	120	120	120	<90	<140
Temperature(℃)-Instant	150	150	160	150	150	150	150	110	160
Anti-Acid	Normal	Normal	Normal	Normal	Normal	Normal	Normal	outstanding	outstanding
Anti-Alkali	Normal	Normal	Normal	Normal	Normal	Normal	Normal	outstanding	outstanding
Anti-Anrasion	outstanding	outstanding	outstanding	outstanding	outstanding	outstanding	outstanding	outstanding	Medial
Finishing Treatment	Surface resin	singeing	Heat	Singeing dip	Calendering	Calendering	singeing	singeing	singeing
	matte	setting	matte	forming	heat setting	matte	matte	matte	
	treatment		coated		process		heat setting		

Cartridge Filter

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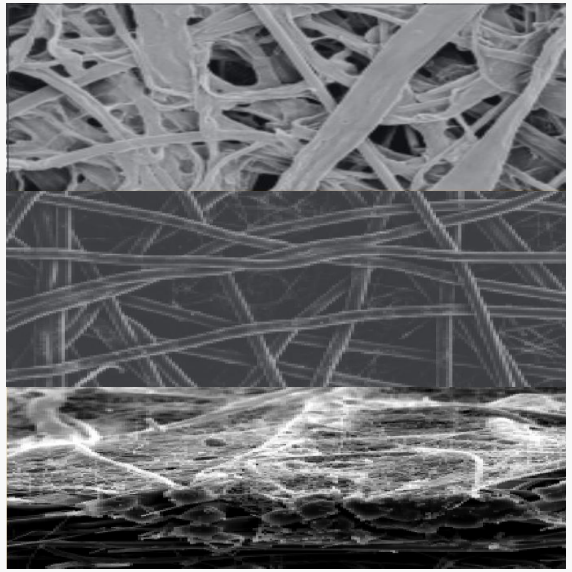

Product introduction

Polyester non-woven fabric					
Top OD /mm	Top ID /mm	End OD/ mm	End hole/ mm	Height /mm	Filter Area/ ㎡
φ324	φ213	φ324	φ14	660	9.5
φ324	φ213	φ324	φ14	750	10.6
φ324	φ213	φ324	φ14	1000	14.2
φ352	φ241	φ352	φ16	660	10
φ352	φ241	φ352	φ16	750	11.3
φ352	φ241	φ352	φ16	1000	15.1

Wood Pulp paper					
Top OD/ mm	Top ID /mm	End OD/ mm	End hole/ mm	Height/ mm	Filter Area/ ㎡
φ324	φ213	φ324	φ14	660	21
φ352	φ241	φ352	φ16	660	23
φ324	φ213	φ324	φ14	750	24
φ352	φ241	φ352	φ16	750	26

Gas Turbine Filter paper					
Top OD /mm	Top ID/ mm	End OD/ mm	End hole/ mm	Height /mm	Filter Area/ ㎡
φ324	φ213	φ324	φ14	660	21
φ408	φ293	φ324	/	660	21
φ352	φ241	φ352	φ16	660	23
φ460	φ2345	φ352	/	660	23

Cartridge Filter

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Length/Style	Media	Part No.
22" Cylin + wrap	Duratek/Spider-Web	P19-1399
22" Cylin + wrap	Cellulose	P19-1595
22" Cylin + wrap	Synthetic	P19-1744
22" Cylin + wrap	Duratek	P19-1789
22" Cylindrical	Synthetic	P03-0229
22" Cylindrical	Duratek/Spider-Web	P03-0230
22" Cylindrical	Synthetic/Spider-Web	P19-0949
22" Cylindrical	Cellulose	P19-1006
22" Cylindrical	Synthetic	P19-1031
22" Cylindrical	Duratek	P19-1234
22" Cylindrical	Duratek/Spider-Web	P19-1310
22" Cyn (Pulstar)	Synthetic	P03-0071
22" Cyn (Pulstar)	Synthetic/Spider-Web	P19-1782
26" CFS Inner	poly	P19-0844
26" CFS Inner	poly	P19-0847
26" CFS Inner	man-made fiber	P19-5778
26" CFS Outer	Synthetic/Spider-Web	P03-0050
26" CFS Outer	Synthetic/Spider-WebXP	P03-0065
26" CFS Outer	Synthetic	P03-0067
26" CFS Outer	Synthetic/Spider-Web	P03-0252
26" CFS Outer	Synthetic/Spider-Web	P19-0848
26" CFS Outer	Synthetic/Spider-Web	P19-1469
26" CFS Set	Synthetic	P03-0227
26" CFS Set	Synthetic/Spider-Web	P19-0856
26" CFS Set	Synthetic/Spider-Web	P19-1129
26" Conical	Synthetic/Spider-Web	P03-0034
26" Conical	Spider-Web XP	P03-0151
26" Conical	Spider-Web XP	P03-0158
26" Conical	Duratek	P03-0169
26" Conical	Synthetic	P03-0173
26" Conical	Synthetic/Spider-Web	P03-0175
26" Conical	Duratek/Spider-Web	P03-0178
26" Conical	Cellulose	P19-1039
26" Conical	Synthetic	P19-1107
26" Conical	Synthetic/Spider-Web	P19-1150
26" Conical	Synthetic/Spider-Web	P19-1178
26" Conical	Duratek	P19-1238
26" Conical	Duratek/Spider-Web	P19-1281
26" Conical	Synthetic/Spider-Web	P19-1619
26" Conical	Synthetic	P19-1773
26" Conical	Synthetic/Spider-Web	P19-1962
26" Conical	Duratek	P19-9711
26" Conical (Braden)	Duratek	P03-0243
26" Conical (Braden)	Synthetic	P03-0244
26" Conical (Braden)	Synthetic/Spider-Web	P03-0245
26" Conical (Braden)	Synthetic/Spider-Web	P03-0246
26" Conical Set/GDS-I	Synthetic/Spider-Web	P77-7171 &
26" Conical Set/GDS-I	Duratek/Spider-Web	P77-8230 &

Length/Style	Media	Part No.
26" Cylin + wrap	Synthetic	P03-0165
26" Cylindrical	Spider-Web XP	P03-0025
26" Cylindrical	Spider-Web XP	P03-0166
26" Cylindrical	Duratek	P03-0168
26" Cylindrical	Synthetic	P03-0172
26" Cylindrical	Spider-Web XP	P03-0174
26" Cylindrical	Duratek/Spider-Web	P03-0179
26" Cylindrical	Synthetic	P03-0192
26" Cylindrical	Synthetic	P19-1033
26" Cylindrical	Cellulose	P19-1037
26" Cylindrical	Synthetic/Spider-Web	P19-1149
26" Cylindrical	Synthetic/Spider-Web	P19-1177
26" Cylindrical	Duratek	P19-1236
26" Cylindrical	Duratek/Spider-Web	P19-1280
26" Cylindrical	Synthetic/Spider-Web	P19-1607
26" Cylindrical	Synthetic/Spider-Web	P19-1701
26" Cylindrical	Synthetic	P19-1772
26" Cylindrical	Duratek/Spider-Web	P19-1961
26" Cylindrical	Duratek	P19-9710
27" Flange-Top	Duratek/Spider-Web	P19-1261
27" Flange-Top	Duratek	P19-1295
27" Flange-Top	Duratek/Spider-Web	P19-1731
27" Flange-Top	Synthetic/Spider-Web	P19-1754
27" Flange-Top	Synthetic/Spider-WebXP	P19-1788
27" Flange-Top	Cellulose	P19-1937
28" Twist-Lock	Duratek/Spider-Web	P19-1964
28.25" Cyn (Pulstar)	DuratekSpider-Web	P03-0183
28.25" Cyn (Pulstar)	DuratekSpider-Web	P03-0184
28.25" Cyn (Pulstar)	Synthetic/Spider-Web	P03-0253
28.25" Cyn (Pulstar)	Synthetic/Spider-Web	P03-0254
29" Cylindrical	Duratek	P19-1617
30" Cylin + wrap	Duratek/Spider-Web	P19-1713
30" Cylin + wrap	Cellulose	P19-1726
30" Cylin + wrap	Duratek	P19-1790
30" Cylindrical	Cellulose	P19-1461
30" Cylindrical	Duratek	P19-1462
30" Cylindrical	Duratek/Spider-Web	P19-1463
34" Twist-Lock	Cellulose	P19-1581
34" Twist-Lock	Duratek	P19-1587
34" Twist-Lock	Duratek/Spider-Web	P19-1589
34" Twist-Lock	Synthetic	P19-1949
34" Twist-Lock + wrap	Duratek/Spider-Web	P19-1738
34.5" Cyn (Pulstar)	Duratek	P03-0064
34.6" Cyn (Pulstar)	Synthetic	P03-0072
34.7" Cyn (Pulstar)	Synthetic/Spider-Web	P19-1781
34.8" Cyn (Pulstar)	Duratek	P03-0070
36" Cylindrical	Duratek/Spider-Web	P19-1767
Cylindrical	Oil Mist Eliminator Element	P15-7523

PART 03

CUSTOMERS

Cooperative Customers

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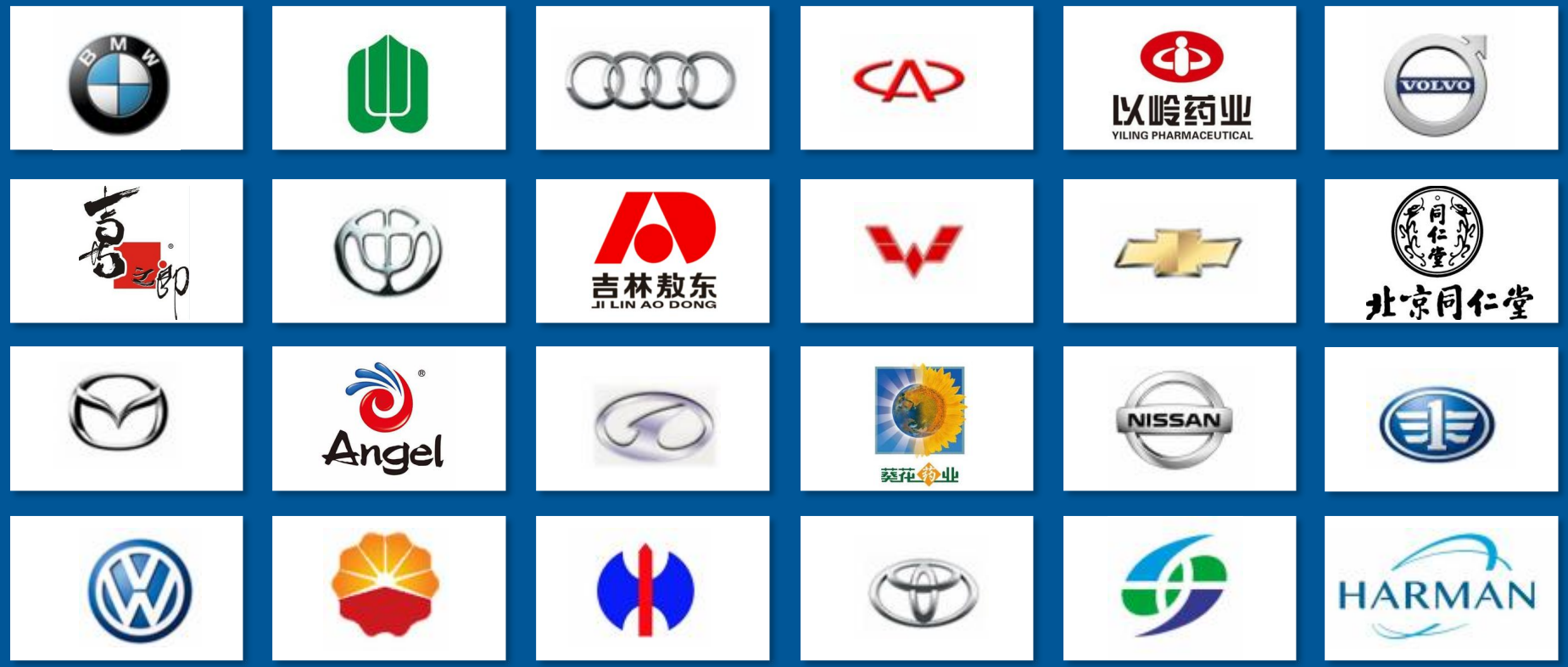

PART 04

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