



Professional HVAC Fan & Motors Manufacturer

—— Filter Element



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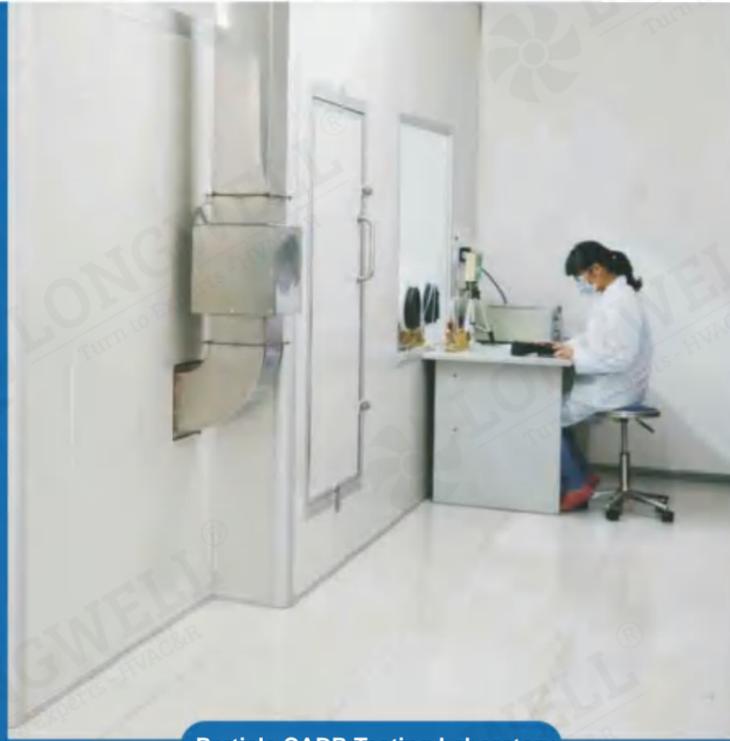
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CADR Test Chamber

Filter Resistance And Efficiency Testing Laboratory



VOC CADR Laboratory



Particle CADR Testing Laboratory



Filter Resistance And Efficiency Testing Laboratory

30m³ CADR test chamber is established according to GB/T18801-2015 standard, equipped with highly precise tester from America, such as TSI3340 (Resolution: within 5% at 0.1µm diameter, Particle Size Range: 0.09 to 7.5µm optical size (PSL equivalent), Maximum Concentration: 3000p/s) and TSI8530 Resolution: ±0.1% of reading of 0.001mg/m³, Particle Size Range: 0.3-10µm, Detective Range: 0.001-400mg/m³)

The filter resistance and efficiency test laboratory is developed according to the American Standard ashrae52.2 and est-rp-cco07.2. Its principle is to measure and evaluate the resistance and filtration efficiency of the filter under rated air volume in the test system by simulating the actual working state of the tested sample.



TSI 3340



TSI 8530



Filter Resistance and Efficiency Testing Bench



Laser Particle Counter

Testing Equipment



Touch Screen Laser
Dust Particle Counter



Touch Screen Laser
Dust Particle Counter



Filter Material Dust
Capacity Test Bench



Semi-auto Cabin Air Filter
Side-gluing Machine



Cabin Filter Trimming Machine



Particulate Matter Filtration
Efficiency Test Bench



Filter Material Test Bed



Full-auto Paper Frame Gluing Machine



Knife Paper Pleating Machine



Automatic Reciprocating Origami Production Line



Automatic Paper Frame Dispensing Machine



Semi Automatic Air Conditioner Side Bonding Machine



Full Automatic PP Intermittent Gluing and Knife Folding Wave Receiving Production Line



Irregular Filter Element Trimming Machine



PU Pack Trimming Machine



Full-auto PP Intermittent Gluing Production Line



Ash Filter Glue Injection Machine



Full-auto High Speed CNC Knife Paper Pleating Production Line

HEPA+Anti-bacterial Allergy Filter

The compound filter screen is a high-efficiency adsorption filter material formed by orderly process combination of carbon sandwiched between non-woven fabrics, which efficiently filters tiny particles in air and adsorbs harmful gases.

Filter Material:Carbon-core cloth

Frame:Black cardboard frame, color cardboard frame,hard paper, frame, aluminum frame,galvanized frame,stainless steel frame.

Sealing Strip:EPDM(high rebound),EVA(high rebound),PU(high density) Highly effective filtration of harmful gases such as PM2.5,secondhand smoke, formaldehyde,toluene,TOVC, etc.,inhibiting bacteria and mold.

Applications:Widely used in air purifiers, fresh air systems, sweepers, medical purifiers,car purifiers,air heaters,vacuum cleaners,air conditioners and other environments that require high air filtration efficiency.



Technical Parameters

Weight (g/m ²)	Carbon Content	Filtration Grade	Thickness (mm)	Product Thickness (mm)	Wind Resistance (Pa)	Dust Holding Capacity
600±40g/m ²	240±50g/m ²	H12	1.4±0.2	25-60	19	240g/m ²
Antibacterial Property	Deodorization	Degradation of Formaldehyde	TVOC			
≥99.8%	≥99.8%	≥98%	≥98%			

Note: customizable according to the customer's requirements

Activated Allergy Filter

Filter Material:High iodine column carbon,coconut shell carbon,modified activated carbon,etc.honeycomb,plastic honeycomb,paper honeycomb.

Base Material:Aluminum honeycomb,plastic honeycomb,paper honeycomb.

Frame:Black cardboard frame,color cardboard frame,hard paper frame, aluminum frame,galvanized frame,stainless steel frame.

Sealing Strip:PDM (high rebound),EVA (high rebound),PU (high density)

Structure:Optional activated carbon+high-strength frame+sealing strip(optional)+handle (optional)

Function:Absorb peculiar smell,formaldehyde,toluene,TOVC and other harmful gases,effectively purify the environment.

Applications:Widely used in air purifiers,fresh air systems,sweepers, medical purifiers,car purifiers,air heaters,vacuum cleaners,air conditioners and other environments that require high air filtration efficiency.



Technical Parameters

Material	Iodine Value	Particles	Hcharacteristic
Columnar activated carbon	≥1000	Φ2-4mm	It comes from ancient deep carbon,with developedpore size and stronger adsorption performance than general activated carbon.
Coconut shell charcoal	≥1000	Mesh of 6-12	Use coconut shells as materials,with more developed aperture ratio than coal carbon.
Modified activated carbon	≥1000	Φ2-4mm	The activated carbon has been modified to dredge the blocked activated carbon pores,increase the number of activated carbon pores and strengthen the ability to adsorb harmful gases.
Activated carbon sponge	≥900	Activated carbon powder	It has better gas dynamics performance,small volume density, large specific surface area,high adsorption efficiency and small wind resistance coefficient.

Note: customizable according to the customer's requirements

HEPA Allergy Filter

Filter Material:PP,PP+ PET glass fiber filter paper.

Outer Frames:Paper frame,non-woven fabric frame,aluminum frame,galvanized frame,stainless steel frame.
HEPA mainly filters dust particles larger than or equal to 0.3 micron,with the highest efficiency up to 99.97%.

Combined HEPA Filter Screen:HEPA and honeycomb activated carbon filter are combined to effectively remove peculiar smell toluene,oil mist and other harmful substances.HEPA is matched with antibacterial filter screen,primary filter cotton,nylon net,activated carbon sponge,etc to increase antibacterial effect.

Sealing Strip:EPDM (high rebound),EVA (high rebound),PU(high density)

Applications:Widely used in air purifiers,fresh air systems,sweepers,medical purifiers,car purifiers,air heaters,vacuum cleaners,air conditioners and other environments that require high air filtration efficiency.



Technical Parameters

Material	Filtration Grade	Filtration Efficiency	Wind Resistance(Pa)	Thickness (mm)	Weight (g/m ²)
PP,PP+PET	H10	95%	12	7-60	90±10
PP,PP+PET	H11	98%	13	7-60	90±10
PP,PP+PET	H12	99.5%	20	7-60	90±10
PP,PP+PET	H13	99.97%	30	7-60	110±10
PP,PP+PET	H14	99.99%	45	7-60	110±10
Glass fiber	H14	99.99%	12	25-300	/

Note: customizable according to the customer's requirements

Primary Allergy Filter

Antibacterial framework cloth,carbonized framework cloth,non-woven fabric fiber cotton,activated carbon fiber cotton,etc.

Frame:Black cardboard frame,color cardboard frame,hard paper frame aluminum frame,galvanized frame,stainless steel frame.

Sealing Strip:EPDM (high rebound),EVA (high rebound),PU (high density)

Structure:Optional filter material+side edge sealing+high-strength frame +sealing strip(optional)+handle(optional)

The product can be used as pre-filtration or primary filtration,and the filtering material has the characteristics of good stiffness,low wind resistance, good tensile strength,high air permeability,etc.

Function:Filter large particle dust,prevent mildew and bacteria,absorb peculiar smell,filter formaldehyde and other harmful gases,cooperate with efficient filtering equipment to prolong its service life.

Applications:Widely used in air purifiers,fresh air systems,sweepers,medical purifiers,car purifiers,air heaters,vacuum cleaners,air conditioners and other environments that require high air filtration efficiency.



Technical Parameters

Material	Filtration Grade	Air Permeability (L/m ² .s)	Wind Resistance (Pa)	Thickness (mm)	Weight (g/m ²)
Antibacterial framework cloth	G4	1400-5800%	/	0.2-0.4	60-100
Carbonized framework cloth	G4	1500-2300%	/	0.2-0.5	80-95
Non-woven fabric fiber cotton	G4	/	20-45	3-25	125-300
Activated carbon fiber cotton	G4	/	30-45	3-5	/

Note: customizable according to the customer's requirements

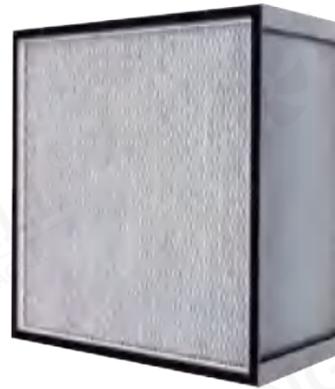
Deep-pleat High Efficiency Filter Speciality

Outer Frame: Aluminum frame, galvanized frame, stainless steel outer frame.

Filter Material: Superfine glass fiber filter paper, high dust content, low resistance. Special aluminum foil or paper spacing can be used, double-sided protective screen available, to protect the filter material, with good strength.

Applications

1. End filtration of commercial and industrial ventilation and air conditioning system for clean room
2. Air purification systems for electronics, biopharmaceuticals, mechanical instruments, petrochemical light industry, etc.



Technical Parameters

Dimensions (mm)	Filtering Area (m ²)		Rated Air Flow (m ³ /h)		Initial Resistance			Final Resistance
	Standard	High Air Volume	Standard	High Air Volume	H10	H13	H14	
320x320x220	4.2	6.1	350	525	90	130	140	450
484x484x220	9.5	14.4	1000	1500	90	130	140	450
726x484x220	14.5	22	1500	2250	90	130	140	450
968x484x220	19	29	2000	3000	90	130	140	450
315x630x220	8	12	750	1200	90	130	140	450
630x630x220	16.5	24.5	1500	2250	90	130	140	450
945x630x220	25	37	2200	3300	90	130	140	450
1260x630x220	33	50	3000	4500	90	130	140	450
305x305x150	2.5	3.6	250	375	90	130	140	450
305x610x150	5	7.5	500	750	90	130	140	450
610x610x150	10	15.2	1000	1500	90	130	140	450
915x610x150	15.5	23	1500	2250	90	130	140	450
1220x610x150	20.5	31	2000	3000	90	130	140	450
305x610x292	10	15	1000	1500	90	130	140	450
610x610x292	21	31.5	2000	3000	90	130	140	450

Note: customizable according to the customer's requirements

Mini-pleat HEPA Filter

Outer Frame: Aluminum Frame

Filter Material: Ultrafine glass fiber filter paper, high dust capacity, low resistance. Light and thin, compact structure, with double-sided mesh, protection of filter material, good strength.

Applications

1. End filtration of commercial and industrial ventilation and air conditioning system for clean room;
2. Air purification systems for electronics, biopharmaceuticals, mechanical instruments, petrochemical light industry, etc.



Technical Parameters

Dimensions (mm)	Filtering Area (m ²)	Rated Air Flow (m ³ /h)	Rated Wind Speed (m/s)	Initial Resistance		Final Resistance
				H13	H14	
305x305x50	2.6	150	0.5	≤190	≤250	450
305x610x50	3.3	300	0.5	≤190	≤250	450
610x610x50	6.7	600	0.5	≤190	≤250	450
915x610x50	10	900	0.5	≤190	≤250	450
1220x610x50	13.5	1200	0.5	≤190	≤250	450
305x305x69	2.6	250	0.75	≤190	≤250	450
305x610x69	5.4	500	0.75	≤190	≤250	450
610x610x69	11.2	1000	0.75	≤190	≤250	450
915x610x69	17	1500	0.75	≤190	≤250	450
1170x570x69	20	1800	0.75	≤190	≤250	450
1220x610x69	22.6	2000	0.75	≤190	≤250	450
484x484x80	10	280	0.85	≤190	≤250	450
610x610x80	13	1100	0.85	≤190	≤250	450
630x630x80	14.5	1200	0.85	≤190	≤250	450
915x610x80	19	1800	0.85	≤190	≤250	450
1220x610x80	25	2200	0.85	≤190	≤250	450
484x484x90	13.2	350	1	≤190	≤250	450
610x610x90	15.4	1300	1	≤190	≤250	450
1220x610x90	31.1	2600	1	≤190	≤250	450

Note: customizable according to the customer's requirements

Paper Frame Folding Filter

Features: Large filtering surface area, low initial resistance high air volume and dust holding capacity. completely disposable type.

Outer Frame: High performance waterproof board. The waste paper frame filter can be incinerated without pollution, in compliance of the environmental protection requirements.

Filter Material: Flame retardant synthetic fiber, the air outlet surface of filter material covered with metal support with good strength.

Applications: Mainly used for pre-filtration of high efficiency filter and purification filtration of room ventilation system and public service places such as airport and large shopping mall.



Technical Parameters

Dimensions (mm)	External Dimension (m ²)	Rated Air Flow(m ³ /h)		Resistance(Pa)		Area (m ²)	Fold The Spacing(mm)
		Standard	High Air Volume	Standard	High Air Volume		
12x24x1	290x595x23	600	1200	20	63	0.4	19
20x14x1	493x341x23	550	1100	20	63	0.39	19
20x14x1	493x366x23	625	1250	20	63	0.43	19
20x16x1	493x391x23	650	1300	20	63	0.45	19
20x20x1	493x493x23	800	1600	20	63	0.56	19
14x20x2	341x493x46	850	1700	20	70	0.77	20
20x12x2	493x290x46	700	1400	20	70	0.7	20
20x16x2	493x391x46	900	1800	20	70	0.94	20
20x18x2	493x442x46	1050	2100	20	70	1.01	20
20x20x2	493x493x46	1200	2400	20	70	1.12	20
24x12x2	595x290x46	850	1700	20	70	0.79	20
24x18x2	595x442x46	1300	2600	20	70	1.24	20
20x16x4	493x391x96	950	1900	18	68	1.45	28
20x20x4	493x493x96	1200	2400	18	68	1.73	28
24x12x4	595x290x96	850	1700	18	68	1.28	28
24x18x4	595x442x96	1300	2600	18	68	1.91	28
24x20x4	595x493x96	1400	2800	18	68	2.09	28
24x24x4	595x595x96	1700	3400	18	68	2.55	28

Note: customizable according to the customer's requirements

Metal Washable Filter

Features: Aluminum frame or stainless steel frame, which can reduce the frequency of cleaning and maintenance of the filter.

Filter material: Multilayer corrugated net with low initial resistance, high dust holding capacity and long service life. Compressed air flushing or cleaning solution can be used for cleaning and reusing for many times strong, and resistant to high temperature. All aluminum mesh and stainless steel mesh are safe, strong and resistant to high temperature, acid and alkali.

Applications: Widely used in office buildings, conference rooms, hospitals, shopping malls, stadiums, airports and other large civil building ventilation systems: centralized ventilation and air conditioning system of general factory primary filtration in clean room centralized ventilation and air conditioning system.



Technical Parameters

Dimensions (mm)	Rated Air Flow(m ³ /h)	Rated Wind Speed (m/s)	Filtering Area (m ²)	Frame
595x594x15	3000	8	0.35	Aluminum alloy; Galvanized sheet; Stainless steel
594x594x20	3000	10	0.35	
594x594x25	3000	12	0.35	
594x594x46	3000	15	0.35	
594x594x50	3000	18	0.35	
594x594x80	3000	20	0.35	

Note: customizable according to the customer's requirements

Photocatalyst Filter Screen

Photocatalyst filter screen is a kind of nanometer TiO₂, which is deposited on honeycomb substrate. Under the irradiation of ultraviolet light, it has strong catalytic activity, can decompose pollutants and peculiar smell, has strong oxidation ability, can destroy the cell membrane of bacteria, and thus has sterilization function.

Substrate: Aluminum honeycomb, filter screen, stainless steel mesh, foam nickel, sponge.

Frame: Black cardboard frame, color cardboard frame, hard paper frame, aluminum frame, galvanized frame, stainless steel frame.

Sealing Strip: EPDM (high rebound), EVA (high rebound), PU (high density).

Function: Under the action of ultraviolet lamp, formaldehyde, benzene, toluene, xylene, ammonia, TVOC and other toxic and harmful substances, odor, bacteria and other pollutants are oxidized and decomposed into harmless CO₂ and H₂O.

Applications: Widely used in air purifiers, fresh air systems, sweepers, air conditioners and other environments that require high medical purifiers, car purifiers, air heaters, vacuum cleaner air filtration efficiency.



Cold Catalyst Filter

The cold catalyst filter screen decomposes a plurality of harmful odor gases into harmless and odorless substances at normal temperature and normal pressure, changes from simple physical adsorption to chemical adsorption, and decomposes while adsorption. In the catalytic reaction process, the cold catalyst itself does not directly participate in the reaction, and the cold catalyst does not change or lose after the reaction and can play a role for a long time. The service life of the filter screen is prolonged. The remarkable difference with photo catalyst is that the catalytic decomposition reaction does not need ultraviolet ray, high temperature and high pressure, and can be used under normal living environment.



Substrate: Aluminum honeycomb, filter screen, stainless steel mesh, foam nickel, sponge.

Frame: Black cardboard frame, color cardboard frame, hard paper frame, aluminum frame, galvanized frame, stainless steel frame.

Sealing Strip: EPDM (high rebound), EVA (high rebound), PU (high density).

Structure: Cold catalyst + Optional base material, high-strength frame, sealing strip (optional), hand e (optional).

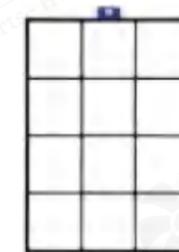
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Applications: Widely used in air purifiers, fresh air systems, sweepers, air conditioners and other environments that require high medical purifiers, car purifiers, air heaters, vacuum cleaner air filtration efficiency.

Air Filter Product



Combination Filter Net



Primary Efficiency Filter



Compound Filter Net



Activated Carbon Filter



Activated Carbon Filter



XiaoMi Car Air Filter



XiaoMi Filter



XiaoMi Filter



Air Conditioner Filter Cotton



Robotic Vacuum Cleaner Accessories



Robotic Vacuum Cleaner Accessories

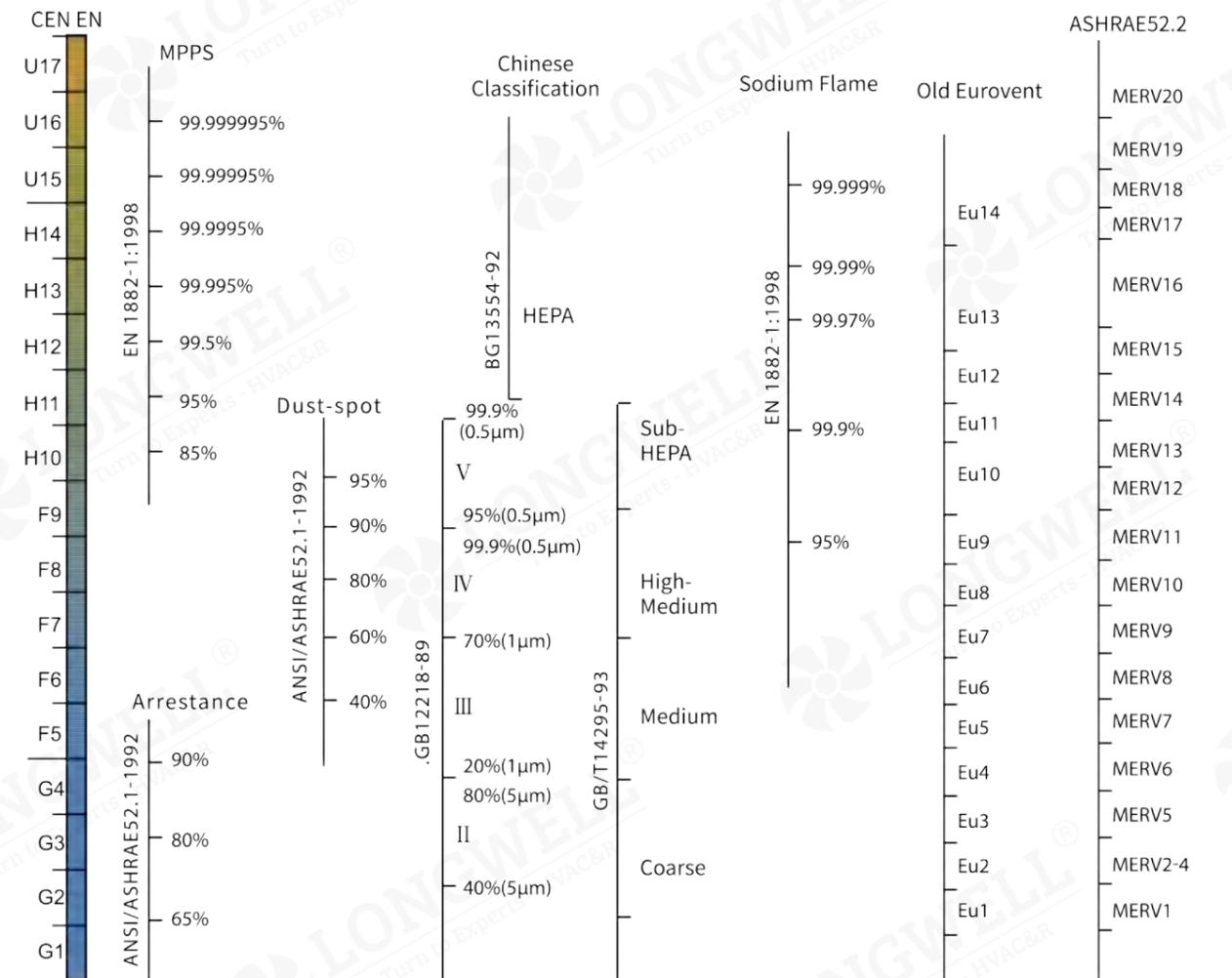


IQAIR Filtration

Air Filter Product



Comparison Of Air Filter Efficiency Specifications



Efficiency Specification Approximate Control Chart

GB/T14295	Roughly			Medium Efficiency				High School Efficiency			Sub-high Efficiency			Efficient						
ASHRAE (52.2P.1995)	C1	C1,2,3	L5	L6	L7	L8	M9	M10	M11	M12	M13	M14	H15	H15	H16	H16	H17	H18	H19	H20
CEN(EN779)	G1	G2	G3	G3	G4	G4	F5	F5	F6	F6	F7	F8	H9	H10	H11	H12	H13	H13	H14	H15-17
EUROVENT	EU1	EU2	EU3	EU3	EU4	EU4	EU5	EU5	EU6	EU6	EU7	EU8	EU9	EU9	EU10	EU11	EU12	EU13	EU14	EU14