



For Clean Air Tomorrow



HVAC Air Filters
 **Catalogue**

Air filter classification index

Filter stage	Filter class	ASHARE Standard 52.2 MERV	Average arrestance(A _m) compared with test dust(%)	Average efficiency(E _m) for particles of 0.4 microns(%)	Minimum efficiency for particles 0.4micron(%)	Test aerosol
Coarse filter (1st stage)	G1	M1	50≤A _m <65	-	-	DEHS 0.2-3.0μm
	G2	M2/M3/M4	65≤A _m <80	-	-	
	G3	M5/M6	80≤A _m <90	-	-	
	G4	M7/M8/M9	90≤A _m	-	-	
Fine filter (2nd stage)	M5	M10	-	40≤E _m <60	-	
	M6	M11/M12	-	60≤E _m <80	-	
	F7	M13	-	80≤E _m <90	35	
	F8	M14	-	90≤E _m <95	55	
	F9	M15	-	95≤E _m	70	
EPA/HEPA/ULPA (Final stage)			Classification	Integral value of efficiency in the MPPS(%)	Integral value of penetration in the MPPS(%)	Test aerosol
	E10	M16	EPA: Efficient Particulate Air Filter	≥85	≤15	DEHS MPPS 0.1-0.3μm
	E11			≥95	≤5	
	E12			≥99.5	≤0.5	
	H13	M17/M18	HEPA: High efficiency Particulate Air Filter	≥99.95	≤0.05	
	H14	M19		≥99.995	≤0.005	
	U15	M20	ULPA: Ultra Low Penetration Air Filter	≥99.9995	≤0.0005	
	U16			≥99.99995	≤0.00005	
	U17			≥99.999995	≤0.000005	

Catalogue

Filter media

Synthetic Coarse Media-----	Page 2
Painting Arrestor-----	Page 3
Ceiling Media-----	Page 3

Coarse filter

Metal meshwork filter-----	Page 4
Disposable panel filter-----	Page 5
Prefilter with filter media replaceable-----	Page 6
Pocket prefilter-----	Page 7

Fine filter

Synthetic Pocket filter-----	Page 8
Self-supported pocket filter-----	Page 9
V-bank filter-----	Page 10
Deep pleated filter with separator-----	Page 11
Rigid Box Filter-----	Page 12
Mini pleat panel filter-----	Page 13

EPA/HEPA/ULPA filter

Mini pleat panel filter(HEPA/ULPA)-----	Page 14
EPA/HEPA/ULPA-V-bank filter(HEPA)-----	Page 15
EPA/HEPA/ULPA-Deep pleated filter with separator(HEPA)-----	Page 16
Fan Filter Unit-----	Page 17
Disposable HEPA Filter Box-----	Page 18

Replaceable HEPA Box Module----- Page 19

High Temperature resistant filter

Flat Panel High Temperature filter----- Page 20

Mini-pleated High Temperature filter----- Page 21

High Temperature resistant HEPA filter----- Page 22

Activated Carbon filter

Activated Carbon Panel filter----- Page 23

Activated Carbon Panel filter----- Page 24

Activated Carbon Pocket filter----- Page 25

Activated Carbon V-bank filter----- Page 26



THENOW

For Clean Air Tomorrow

With high quality products, we are contributing to something that is essential to everyone - clean air for health, performance and well-being.

Our HVAC air filter products are improving the quality of air around the world in hospitals, office buildings, industrial plants, laboratories, pharmaceutical facilities, schools, museums, sports arenas, residential complexes... And many more.

Thenow manufactures a full line of air filtration products with our state-of-the-art production systems certified by ISO 9001:2015. And there are advanced and reliable testing facilities to ensure each filter's quality before market release. Besides, we offer expert technical and professional services to our customers.



Synthetic Coarse Media



Feature:

- PET organic synthetic fiber with fracture resistance
- Low initial pressure drop
- High dust holding capacity
- Long lifespan and Economical and practical

Applications:

- Designed for pre-filtration in various ventilation systems

Sample data:

Technical Data		Model				
		TN-150	TN-250	TN-290	TN-300	TN-350
Thickness(mm)		10-12	13-15	13-15	20-22	18-20
Roll Size(m)		2*20	2*20	2*20	2*20	2*20
Class (ENTT9: 2012)		G2	G3	G3	G4	G4
ISO 16890: 2016		ISO Coarse			Coarse 60%	Coarse 75%
Average Arrestance (ENTT9)		73%	87%	86%	91%	90%
Initial Efficiency		<20%	<30%	<30%	<40%	<40%
Particle Size Efficiency	0.75-1.0 μ	---	35%	27%	78%	73%
	2.0-3.0 μ	30%	53%	52%	90%	88%
	4.0-5.0 μ	48%	77%	75%	99%	99%
Air Velocity(m/s)		1.5	1.5	1.5	1.5	1.5
Initial Pressure Drop (Pa)		18	27	24	38	40
Final Pressure Drop (Pa)		150	200	200	250	250
Dust Arrest Capacity(g/m ²)		400	500	520	600	600
Temperature Resistant (°C)		100	100	100	100	100
Humidity Resistance		100%	100%	90%	90%	100%
UL 900 Standard		CLASS 2	CLASS 2	CLASS 2	CLASS 2	CLASS 2
Washable		1-2 times	2-3 times	1-2 times	NO	3-4 times



Painting Arrestor

Feature:

- Low pressure drop and high dust holding capacity
- Arrest 95% painting mist and resist 170°C



Ceiling Media

Feature:

- Progressively structured ensure perfect performance
- Absolutely no migrating of paint-damaging particles larger than 10 micron
- With special adhesive coating in full depth on each individual fiber
- Full self-extinguishing flame properties
- Clean air side dense and smoothed and reinforced with open mesh scrim

Sample data:

Technical Data	Model				
	CM-560	CM-600	PA-50	PA-75	PA-100
Thickness(mm)	20	20	50	75	100
Roll Size(m)	2*20	2*20	2*20	2*20	2*20
Class (ENTT9: 2012)	M5	M5	G3	G4	G4
ISO 16890: 2016	ePM10 55%	ePM10 60%	ISO Coarse		
Average Arrestance (ENTT9)	94%	95%	93% mist	95% mist	98% mist
Initial Efficiency	<50%	<50%	<30%	<35%	<40%
Air Velocity(m/s)	0.25	0.25	1.0	1.0	1.0
Initial Pressure Drop (Pa)	25	25	20	25	30
Final Pressure Drop (Pa)	450	450	200	200	250
Dust Arrest Capacity(g/m2)	420	450	1400	1800	2500
Temperature Resistant (°C)	100	100	100	100	100
Humidity Resistance	90%	90%	90%	90%	90%
UL 900 Standard	CLASS 2	CLASS 2	CLASS 2	CLASS 2	CLASS 2



Metal meshwork filter

Structure:

Frame	Filter Media	Face net
Aluminum/Galvanised steel/Stainless steel	Aluminum mesh/ Stainless steel mesh/ Nylon mesh.	Aluminum mesh/ Stainless steel mesh

Feature:

- Washable for repeated use, cost efficient
- Ideal for high moisture, high temperature and acid resistant operating conditions
- Super low initial pressure drop
- High dust holding capacity

Applications:

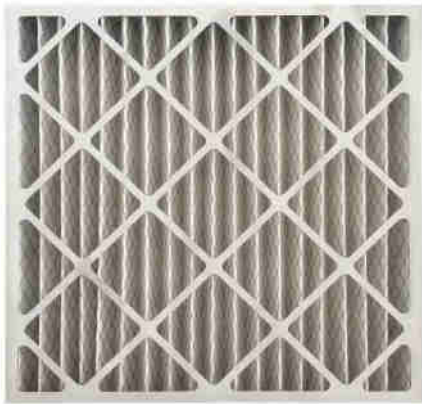
- Primary filtration to remove moisture, oil residue or oil mist, grease, etc. in very dirty environments and general ventilation systems.
- Ventilation conditions which require acid-base resistance air filters.

Technical data:

- G2, G3 EN779
- Can be made in all customized sizes
- Average arrestance: 65-90%(ASHRAE 52.2-1992)
- Max air flow rate: 125% of nominal air flow
- Final pressure drop: Recommend @150pa, Maximum @250pa.
- Thermal stability: Up to 300 °C
- Moisture resistance: 100% RH

Sample data:

W*H*D(mm)	Filter Class	Net layer	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
595*595*20	G2	4	1.4	3800	37
	G3				
287*595*20	G2		0.68	1900	55
	G3				
595*595*45	G2	6	2.52	3800	45
	G3				
287*595*45	G2		1.22	1900	45
	G3				



Disposable panel filter

Structure:

Frame	Filter Media	Face net
Water resistant cardboard	Polyester/Polycotton	Spot mesh, expanded mesh

Feature:

- Self-supporting material
- No metal, thus fully incinerable
- Low pressure drop media

Applications:

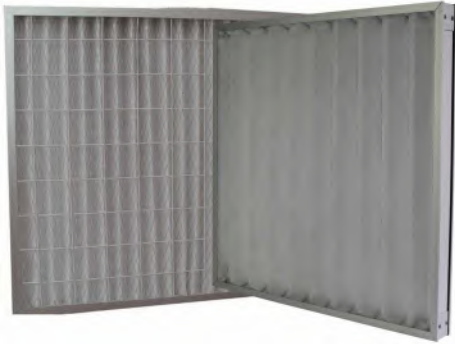
As prefilters for intake, exhaust and recirculating air systems, extending the operational lifetimes of the downstream fine filters.

Technical data:

- G3~G4 EN779; MERV5~8 ASHRAE
- Available in 23mm, 44 and 95mm depth
- Average arrestance: 92%(ASHRAE 52.2-1992)
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Max air flow rate: 125% of nominal air flow
- Final pressure drop: 2-3 times initial pressure drop
- Thermal Stability: Up to 70 °C
- Moisture resistance: 100% RH

Sample data:

Type	W*H*D(inch)	W*H*D(mm)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
Standard airflow	24*24*1	595*595*23	G4	0.56	1900	85
High airflow				0.83	2600	65
Standard airflow	20*20*2	495*495*45	G4	0.61	1330	55
High airflow				0.75	2000	80
Standard airflow	24*24*4	595*595*95	G4	1.68	1900	45
High airflow				2	3400	70
Standard airflow	12*24*4	287*595*95	G4	0.84	930	45
High airflow				1	1600	70



Prefilter with filter media replaceable

Structure:

Frame	Filter Media	Face net
Extruded Aluminum/ Galvanized steel sheet	Polyester	None/Spot mesh/ Expanded mesh

Feature:

- Rigid structure for demanding applications
- Filter media replaceable, thus cost effective
- Thermal Stability: 80℃ for synthetic fiber, 100℃ for glass fiber

Applications:

As prefilters for intake, exhaust and recirculating air systems, extending the operational lifetimes of the downstream fine filters.

Technical data:

- G2~G4 EN779; MERV3-8 ASHRAE
- Available in 20~95mm depth
- Average arrestance: 70%~94%(ASHRAE 52.2-1992)
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Max air flow rate: 125% of nominal air flow
- Final pressure drop: 200-250Pa
- Thermal Stability: 80℃ for synthetic fiber, 100℃ for glass fiber
- Moisture resistance: 100% RH

Sample data:

W*H*D(mm)	Filter Class	Net layer	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
Flat panel (Synthetic fiber)	592*592*48	G4	0.34	2540	60
	287*592*25	G3	0.17	800	45
	495*592*20	G4	0.28	2110	95
	495*592*46	G4	0.28	2110	60
Flat panel (Glassfiber)	592*592*45	G3	0.36	3400	60
	292*592*45	G4	0.18	1700	75
	592*592*96	G4	0.36	3400	80
Pleated panel (Synthetic fiber)	592*592*45	G2	0.76	3000	30
	592*592*45	G3	0.76	3000	50
	592*592*45	G4	0.76	3000	70



Pocket prefilter

Structure:

Frame	Filter Media	Face net
Extruded Aluminum/ Galvanized steel sheet/Plastic	Progressively structured polyester	EVA/PE/none for plastic frame

Feature:

- Good filtration performance with self-supporting pockets
- High dust holding capacity and energy saving
- Robust metal header frame

Applications:

As prefilters for intake, exhaust and recirculating air systems, extending the operational lifetimes of the downstream fine filters.

Technical data:

- G2~G4 EN779; MERV3-8 ASHRAE
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Max air flow rate: 125% of nominal air flow
- Final pressure drop: 250Pa
- Thermal Stability: 100 °C
- Moisture resistance: 100% RH

Sample data:

W*H*D(mm)	Pocket Number (pcs)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
592*592*600	6	G3	4.2	3400	20
		G4		3400	34
592*592*530	6	G3	3.6	3400	32
		G4		3400	37
592*592*350	6	G3	2.3	3400	38
		G4		3400	42

Synthetic Pocket filter



Structure:

Frame	Filter Media
Extruded Aluminum/ Galvanized steel sheet/Plastic	Multi-layer complex synthetic fiber

Feature:

- High quality fluffy multilayer synthetic fiber
- High dust holding capacity and low pressure drop
- Ultrasonic seamless sealing bag
- Sturdy metal structure

Applications:

Pocket filters have been widely used in central air conditioning ventilation systems and some gas turbine air inlet systems. They are used for secondary filtration to reduce load and prolong service life of higher-efficiency air filtration systems.

Technical data:

- F5~F9 EN779; MERV9~15 ASHRAE
- Average arrestance: 80%~90%(ASHRAE 52.2-1992)
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Max air flow rate: 125% of nominal air flow
Final pressure drop: 2-3 times initial pressure drop
- Thermal Stability: 70 °C
- Moisture resistance: 100% RH

Sample data:

W*H*D(mm)	Filter Class	Pockets (pcs)	Filter Area(m ²)	Airflow (CMH)	Initial Pressure Drop(Pa)	Airflow (CMH)	Initial Pressure Drop(Pa)
595*595*600	F5	8	6.4	2540	30	3800	45
	F6				40		60
	F7				75		110
	F8				85		130
595*595*600	F5	6	4.97	2540	35	3800	50
	F6				50		75
	F7				80		120
	F8				90		135
490*595*600	F5	5	4.13	2100	35	3140	50
	F6				50		75
	F7				80		120
	F8				90		135
290*595*600	F5	3	2.46	2100	35	1860	50
	F6				45		75
	F7				80		120
	F8				90		135



Self-supported pocket filter

Structure:

Frame	Filter Media	Gasket
Extruded Aluminum/ Galvanized steel sheet/Plastic	Progressively structured polyester	EVA or none for plastic frame

Feature:

- Designed as durable filter elements
- Rigid, non-corrosive, combustable, reeceyclable and mineral-free
- The pressure drop goes up much more slower than common ones.
Much more energy saving.
- High dust holding capacity.

Applications:

- Based on aerodynamics principles, tubular spacers and wedge-shaped filter design can channel the air throughout the depth of the pocket. And self-supporting pockets stay rigid in turbulent airstreams and during turbine shutdown.
- Widely used in car painting systems, gas turbine systems and other central air conditioning systems.

Technical data:

- G3~F8 EN779; MERV5~14 ASHRAE
- Average arrestance: 80%~99%(ASHRAE 52.2-2012)
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Max air flow rate: 125% of nominal air flow
- Final pressure drop: 350Pa(G3-M5); 500Pa(M6-F7)
- Thermal Stability: 100 °C
- Moisture resistance: 100% RH

Sample data:

W*H*D(mm)	Pocket Number (pcs)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Intial Pressure Drop(Pa)
592*592*600	6	G3	4.68	4250	30
		G4			40
		M5			50
	8	M6	6.20		70
		F7			95



V-bank filter

Structure:

Media	Frame	Separator	Sealing	Gasket
Glass fiber Synthetic fiber	ABS/ Aluminum/ Galvanized steel	Hot melt glue	Polyurethane	EVA, EPDM

Feature:

- Compact structure
- Fully incinerable with plastic frame
- Large filter area and high dust holding capacity
- Water resistant

Applications:

- Work as the main filter in ventilation and airconditioning systems of clean room
- Intake air filtration for gas turbine and air compressors

Technical data:

- F6~F9 EN779; MERV11-15 ASHRAE
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Final pressure drop: 2-3 times initial pressure drop
- Thermal stability: Up to 70°C
- Humidity: 100%RH

Sample data:

Type	W*H*D(mm)	Efficiency	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
Aluminum/ Galvanized Steel Frame	305*610*292 4V	F6	12.5	1700	80
		F7	12.5	1700	95
		F8	12.5	1700	115
	610*610*292 4V	F6	25	3400	80
		F7	25	3400	95
		F8	25	3400	115
	610*305*292 2V	F6	12.5	1700	80
		F7	12.5	1700	95
		F8	12.5	1700	115
ABS Frame	592*592*292 4V	F6	16.5	3400	70
		F7	16.5	3400	85
		F8	16.5	3400	110
	592*490*292 4V	F6	13.5	2750	70
		F7	13.5	2750	85
		F8	13.5	2750	110
	592*287*292 4V	F6	7.5	1700	70
		F7	7.5	1700	85
		F8	7.5	1700	110



Deep pleated filter with separator

Structure:

Frame	Filter Media	Separator	Sealant	Gasket	Safe guard
Aluminum/ Galvanised steel/Stainless steel	Fine fiber glass	Aluminum/ Paper	Polyurethane	EVA, EPDM	Powdercoated expanded metal

Feature:

- Large filter area and high dust holding capacity
- Sturdy and moisture resistant construction, long life
- Single header, double header and no headers models at options

Applications:

- Rotating machinery industry, such as centrifugal compressors, gas turbines and engines
- Industrial processes (chemicals, pharmaceuticals, food and beverages, optics, electronics, surface treatment technology, etc.)
- Sophisticated air-conditioning technology(laboratories, museums, airports, office buildings, etc.)

Technical data:

- F6~F9 EN779; MERV11~15 ASHRAE
- Final pressure drop: 2~3 times initial pressure drop
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Thermal Stability:80 C
- Humidity: 100% RH

Sample data:

Type	W*H*D(mm)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Intial Pressure Drop(Pa)
Box	305*610*150	F6	3.8	650	15
	610*610*150	F6	7.8	1300	15
	610*610*292	F6	13.7	2000	75
	610*610*150	F7	7.8	1300	50
	610*610*292	F7	13.7	2000	90
	610*610*292	F8	13.7	2000	105
Single Header	592*592*150	F6	6.5	1300	25
	592*592*150	F7	6.5	1300	60
	592*592*292	F9	12.6	1800	80
	287*592*292	F8	6.2	1000	115



Rigid Box Filter

Structure:

Frame	Filter Media	Separator	Flange
Aluminum/ Galvanized steel	Meltblown PP/Glassfiber	Stiff corrugated cardboard	With header/ no header

Feature:

- Large airflow
- Low pressure drop
- Firm construction

Applications:

- Secondary filtration in central ventilation systems, particularly to protect and extend the life of HEPA/ULPA filters.
- They are suitable for use in ventilation and air conditioning systems of various airflows.

Technical data:

- F5~F8 EN779; MERV9~14 ASHRAE
- Final pressure drop: 2~3 times initial pressure drop
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Thermal Stability: 80 °C
- Humidity: 100% RH

Sample data:

W*H*D(mm)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
593*593*150	F5	2.53	2520	70
	F6			80
	F7			95
	F8			110
287*593*150	F5	1.27	1230	70
	F6			80
	F7			95
	F8			110
592*592*292	F5	5.51	3400	70
	F6			80
	F7			95
	F8			110
287*592*292	F5	2.73	1650	70
	F6			80
	F7			95
	F8			110

Mini pleat panel filter

Structure:



Frame	Filter Media	Separator	Sealant	Gasket	Safe guard
Cardboard/ Plastic/Aluminum/ Galvanised steel/Stainless steel	Glass fiber paper/ Synthetic fiber	Continuous thermoplastic cord	Polyurethane	EVA	Color coated steel grid/ None

Feature:

- Homogeneous filter media velocity coupled with low pressure drop
- Large surface area and high dust holding capacity
- Cost-efficient and dependable operation
- Light weight and easy to install

Applications:

- Industrial processes (chemicals, pharmaceuticals, food and beverages, optics, electronics, surface treatment technology, etc.)
- Sophisticated air-conditioning technology (laboratories, museums, airports, office buildings, etc.)
- Rotating machinery industry, such as centrifugal compressors, gas turbines and engines

Technical data:

- F6~F9 EN779; MERV11~15 ASHRAE
- Recommended final pressure drop: 2-3 times initial pressure drop
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Thermal Stability: 70 C
- Moisture Resistance: 100% RH

Sample data:

W*H*D(mm)	Filter Class	Filter Area (m ²)	Airflow(CMH)	Intial Pressure Drop(Pa)	Airflow(CMH)	Intial Pressure Drop(Pa)
290*593*92	F6	7.45	925	80	1545	130
	F7			110		185
	F8			125		210
493*493*92	F6	10.34	1310	80	2180	130
	F7			110		185
	F8			125		210
493*594*92	F6	12.47	1580	80	2630	130
	F7			110		185
	F8			125		210
493*620*92	F6	13.02	1650	80	2750	130
	F7			110		185
	F8			125		210
593*593*92	F6	15	1900	80	3160	130
	F7			110		185
	F8			125		210



Mini pleat panel filter(HEPA/ULPA)

Structure:

Frame	Filter Media	Separator	Sealant	Gasket	Safe guard
Aluminum/ Galvanised steel/Stainless steel	Micro Glass fiber paper	Continuous thermoplastic cord	Hot melt	EVA/ EPDM	Color coated steel grid/ Aluminum mesh

Feature:

- Homogeneous filter media velocity coupled with low pressure drop
- Large surface area and high dust holding capacity
- Cost-efficient and dependable operation
- Light weight and easy to install
- Each filter element is tested for leakproofing before market release

Applications:

- Highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, food and beverages, optics, micro-electronics, etc.)
- Sophisticated air-conditioning systems (theaters/intensive care units in hospitals and medical institutes, sterile rooms, labs, research centers, etc)

Technical data:

- H11/H13/H14/U15/U16 EN1822; DOP 99%@0.3micron, 99.99%@0.3micron, 99.999%@0.3micron, 99.9997%@0.12micron, 99.99997@0.12micron
- Recommended final pressure drop: 2-3 times initial pressure drop
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Thermal Stability: 70celsius
Moisture Resistance: 100% RH

Sample data:

W*H*D(mm)	Filter Class	Filter Area(m ²)	Airflow/Intial Pressure Drop (CMH/Pa)	Airflow/Intial Pressure Drop (CMH/Pa)	Airflow/Intial Pressure Drop (CMH/Pa)
305*610*50	H13	3.88	235/115	300/135	570/275
	H14		235/130	300/160	570/290
	U15		235/135	300/170	570/320
	U16		235/150	300/190	570/350
1170*570*50	H13	14.77	840/115	1080/135	2040/275
	H14		840/130	1080/160	2040/290
	U15		840/135	1080/170	2040/320
	U16		840/150	1080/190	2040/350
610*610*70	H13	10.97	465/85	600/110	1130/210
	H14		465/95	600/125	1130/235
	U15		465/115	600/145	1130/290
	U16		465/130	600/165	1130/310
1220*610*70	H13	22.46	935/85	1205/110	2270/210
	H14		935/95	1205/125	2270/235



EPA/HEPA/ULPA filter



V-bank filter(HEPA)

Structure:

Media	Frame	Separator	Sealing	Gasket
Glass fiber	ABS/Aluminum/ Galvanized steel	Hot melt glue	Polyurethane	EVA,EPDM

Feature:

- Compact structure and solid airtight frame
- High dust holding capacity and lowest pressure drop
- Water resistant
- Sturdy construction to resist damage
- High performing eliminates bypass air

Applications:

- Work as the main filter in ventilation and air conditioning systems of clean room
- Intake air filtration for gas turbine and air compressors

Technical data:

- H11/H13/H14 EN779, DOP 99%, 99.99%, 99.999% @ 0.3micron
- Final pressure drop: 2-3 times initial pressure drop
- Thermal stability: Up to 80 °C
- UL 900 Standard: Class 2
- Humidity: 100%RH

Sample data:

Type	W*H*D(mm)	Efficiency	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
Aluminum/ Galvanized Steel Frame	305*610*292	H13	12.5	1700	275
	4V	H14	12.5	1700	310
	610*610*292	H13	25	3400	275
	4V	H14	25	3400	310
ABS Frame	592*592*292	H13	16.5	3400	330
	4V	H14	16.5	3400	350
	592*490*292	H13	13.5	2750	330
	4V	H14	13.5	2750	350
	592*287*292	H13	7.5	1700	330
	4V	H14	7.5	1700	350



Deep pleated filter with separator(HEPA)

Structure:

Frame	Filter Media	Separator	Sealant	Gasket	Safe guard
Aluminum/ Galvanised steel/Stainless steel	Fine glassfiber	Aluminum/ Paper	Polyure- thane	EVA/ EPDM	Powderco- ated expanded metal

Feature:

- Large surface area and high dust holding capacity
- Sturdy and moisture resistant construction, long life
- Single header, double header and no headers models
- Each filter element is tested for leakproofing before market release

Applications:

- Ceiling outlets and modules for flexible cleanroom systems
- Highly sensitive industrial processes(pharmaceuticals, biotechnology, chemicals, food and beverages, optics, micro-electronics, etc.)
- Sophisticated air-conditioning applications (operating theaters/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.)

Technical data:

- H11/H13/H14 EN779; DOP 99%, 99.99%, 99.999%@ 0.3micron
- Final pressure drop: 2-3 times initial pressure drop
- DIN 53438 Flammability: F1
- UL 900 Standard: Class 2
- Max Airflow rate: 125% of nominal air flow rate
- Thermal Stability:80 C
- Humidity: 100% RH

Sample data:

Type	W*H*D(mm)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Intial Pressure Drop(Pa)
Box	610*610*150	H10	8	1500	200
	610*610*150	H13	8	1000	250
	610*610*150	H13	10.2	1500	250
	305*610*292	H10	7.9	1500	200
	610*610*292	H13	16	2000	250
	610*610*292	H13	20.5	3000	250
	915*610*292	H14	20.7	3000	280
	915*610*292	H14	35.17	5000	380
	1220*610*292	H14	28	4000	280
	1220*610*292	H14	46.8	6660	380
Single header	592*592*292	H10	14.5	3400	237
	287*592*292	H10	6.69	1700	237



Fan Filter Unit

Feature:

- Box is made of high quality spray painted steel plate
- With electrostatic coating diffuser perforated plate on the airoutlet
- High static pressure, Low noise level
- Independent controlled
- Contains a replaceable Mini-pleated Hepa filter with efficiency $\geq 99.99\%$ @ $0.3\mu\text{m}$
- Each filter element is tested for leak proofing strictly



Applications:

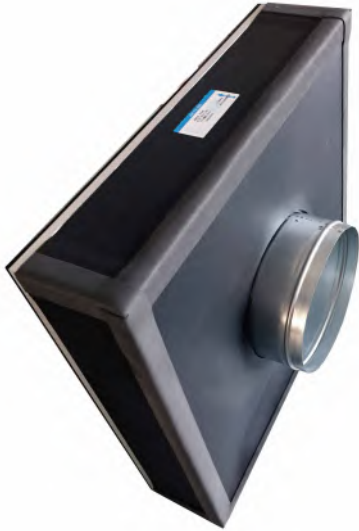
Terminal filtration for plants with high air quality demand and clean room air supply system, ensuring airflow direction and velocity, preventing turbulence effectively. Ventilation conditions which require acid-base resistance air filters.

Filter element:

- Media: Fine glass fiber
- Safeguard: both sides
- Separators: continuous hot melt glue
- Frame: Aluminium
- Operating Temperature limit: $< 70^\circ\text{C}$
- Humidity: 80%RH

Technical data:

Item	Specifications
Box size	1175X575X250+25mm, 575X575X250+25mm
Filter size	1170X570X70mm, 570X570X70mm
Filtration efficiency	HEPA/ULPA, H13~U15
Air velocity	0.30~0.45m/s
Fan	Aluminum turbo-fan
Motor type	AC or EC
Noise level	56dB(A)
External static pressure	80Pa
Vibration	0.8cm/s
Housing	Aluminum, SS, Galvanized Steel
Power supply	Available in 220V, 110V and 380V
Rated power	150W
Options	Pre-filter, duct flange air suction



Disposable HEPA Filter Box

Feature:

- Box is made of high quality static painted steel plate
- Contains a replaceable Mini-pleated Hepa filter with efficiency $\geq 99.99\%$ @ $0.3\mu\text{m}$
- Hepa filter is made of ultra-fine glass fiber paper with compact configuration and low resistance
- With electrostatic coating diffuser perforated plate on the air outlet
- Compact structure, easy installation and maintenance
- Each filter element is tested for leak proofing strictly

Applications:

HEPA filters are widely used in hospitals, electronics and semiconductor manufacturing, clean rooms, clean booths, atomic energy research centers, etc.

Filter element:

- Media: Fine glass fiber
- Safeguard: both sides
- Separators: continuous hot melt glue
- Frame: Aluminium
- Operating Temperature limit: $< 70^\circ\text{C}$
- Humidity: 80%RH

Technical Datas:

Box(W*H*D) (mm)	Area (m ²)	Efficiency	Airflow (CMH)	Initial Pressure (Pa)	Airflow (CMH)	Initial Pressure (Pa)
600*600*180	10.6	H13	450	85	580	110
		H14		95		125
610*610*180	10.9	H13	465	85	600	110
		H14		95		125
915*610*180	20.1	H13	840	85	1080	110
		H14		95		125
1210*600*180	22	H13	915	85	1175	110
		H14		95		125

Note: Inlet collar size 14" ($\Phi 350\text{mm}$), 12" ($\Phi 300\text{mm}$), 10" ($\Phi 250\text{mm}$). Regulator valve is optional.
Different sizes and specifications are available.

Materials:

Frame	Aluminum, SS, Galvanized Steel
Top cover	Galvanized steel sheet
Distributor	Punched steel sheet
Insulation	PE foam
Media	Glass fiber
Face net	Aluminum mesh
Sealant	Polyurethane
Gasket	EVA



Replaceable HEPA Box Module

Feature:

- Box is made of high quality static painted steel plate
- Contains a replaceable Mini-pleated Hepa filter with efficiency $\geq 99.99\%$ @ $0.3\mu\text{m}$
- Hepa filter is made of ultra-fine glass fiber paper with compact configuration and low resistance
- With electrostatic coating diffuser perforated plate on the air outlet
- Compact structure, easy installation and maintenance
- Each filter element is tested for leak proofing strictly

Applications:

Extensively used for terminal filtration in areas and industries requiring extremely high level of cleanliness, such as electronics, semiconductor, precision machinery, pharmaceuticals, hospitals, food processing, etc.

Filter element:

- Media: Fine glass fiber
- Safeguard: both sides
- Separators: continuous hot melt glue
- Frame: Aluminium
- Operating Temperature limit: $< 70^\circ\text{C}$
- Humidity: 80%RH

Technical Datas:

Box(W*H*D) (mm)	Filter(W*H*D) (mm)	Area (m ²)	Efficiency	Airflow (CMH)	Initial Pressure (Pa)	Airflow (CMH)	Initial Pressure (Pa)
600*600*180	560*560*70	9.20	H13	395	85	510	110
			H14		95		125
610*610*180	570*570*70	9.50	H13	410	85	525	110
			H14		95		125
915*610*180	875*570*70	14.90	H13	625	85	800	110
			H14		95		125
1210*600*180	1170*560*70	19.70	H13	825	85	1060	110
			H14		95		125

Recommended final pressure: 2 to 3 times initial pressure drop

Note: Inlet collar size 14" ($\Phi 350\text{mm}$), 12" ($\Phi 300\text{mm}$), 10" ($\Phi 250\text{mm}$). Regulator valve is optional.
Different sizes and specifications are available.

Materials:

BOX		Filter	
Frame	Aluminum, SS, Galvanized Steel	Frame	Extruded aluminum
Top cover	Galvanized steel sheet	Media	Glass fiber
Distributor	Punched steel sheet	Face net	Aluminum mesh
Insulation	PE foam	Sealant	Polyurethane
Gasket	EVA	Gasket	EVA



High Temperature resistant filter

Flat Panel High Temperature filter



Structure:

Frame	Filter Media	Safe guard
Galvanised steel	Glass fiber mat	Galvanised steel /Aluminium mesh

Feature:

- Max. operating temperature: 300°C(continue)
- Sturdy and moisture resistant construction, long life

Applications:

Coarse particle filtration in ovens or high temperature air filtration

Technical data:

- G4~M5 EN799; MERV 8~10 (ASHRAE 52.2-2012)
- Average arrestance: 93~96%
- Max air flow rate: 125% of nominal air flow rate
- Final pressure drop: (recommend) 200Pa~(maximum)250Pa
- Thermal Stability: 300%
- Humidity: 80%

Sample data:

W*H*D(mm)	Filter Class	Dust Spot Efficiency	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
480*480*15	G4	94%	0.22	1000	70
500*500*15		94%	0.24	1000	70
500*500*25		93%	0.24	2000	100
500*500*50		93%	0.24	2000	90
480*480*10	M5	96%	0.22	1000	60
500*500*10		96%	0.24	1000	60
500*500*25		95%	0.24	2000	140
500*500*50		95%	0.24	2000	120



High Temperature resistant filter

Mini-pleated High Temperature filter



Structure:

Frame	Filter Media	Separator	Gasket	Safe guard
Galvanised steel	Glass fiber paper	Corrugated aluminium	Glass fiber loop	Galvanised steel mesh

Feature:

- Compact Configuration
- High dust holding
- Long operating time
- Available in range of sizes
- Max. operating temperature: 260°C(continue)
- Sturdy and moisture resistant construction, long life

Technical data:

- F6~F8 EN799; MERV 12~15 (ASHRAE 52.2-2012)
- Avenrage arrestance: 98~99%
- Max air flow rate: 125% of nominal air flow rate
- Final pressure drop: (recommend) 350Pa~(maximum)400Pa
- Humidity: 80%

Applications:

Fine particle filtration in ovens

Sample data:

W*H*D(mm)	Filter Class	Dust Spot Efficiency	Filter Area(m ²)	Airflow(CMH)	Intial Pressure Drop(Pa)
610*305*55	M6	60%-65%	1.00	800	100
610*610*55		60%-65%	2.00	1500	110
457*915*55		60%-65%	2.60	1600	110
457*915*78		60%-65%	3.80	2000	120
610*305*55	F8	90%-95%	1.00	800	110
610*610*55		90%-95%	2.00	1500	120
457*915*55		90%-95%	2.60	1600	120
610*610*78		90%-95%	3.30	1800	120
457*915*78		90%-95%	3.80	2000	130



High Temperature resistant filter



High temperature resistant HEPA filter

Structure:

Frame	Filter Media	Separator	Sealant	Gasket	Safe guard
Aluminum/ Galvanised steel/Stainless steel	Fine fiber glass	Aluminum	Single componenet high temperature silicone caulk	High temperature silicone sponge	Aluminum mesh/None

Feature:

- High temperature resistant
- Large surface area, high dust holding capacity
- Sturdy and moisture resistant construction, long life
- Single header, double header and no headers models
- Each filter element is tested before market release

Applications:

- High temperature paint spray line
- High clean food baking booth/ box/room
- Use with high temperature equipment to kill the germ or virus, such as pharmaceutical factory
- Ventilation systems with high fire resistant requirement and high temperature operating environment.

Technical data:

- H11/H13/H14 EN1822; DOP 99%, 99.99%, 99.999% @ 0.3 micron
- Final pressure drop: 600pa
- Thermal Stability: Up to 260 °C
- Humidity: 100% RH

Sample data:

W*H*D(mm)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Intial Pressure Drop(Pa)
305*610*150	H13	3.2	500	230
	H14			260
610*610*150	H13	6.4	1000	230
	H14			260
915*610*150	H13	9.6	1500	230
	H14			260
1220*610*150	H13	12.8	2000	250
	H14			280
610*610*292	H13	13.66	2000	250
	H14			280
915*610*150	H13	20.64	3000	250
	H14			280
1220*610*150	H13	28	4000	250
	H14			280



Activated Carbon Panel filter



Structure:

Frame	Filter Media	Safe guard
Aluminum/ Galvanised steel/plastic	Synthetic media saturated with carbon	Aluminum/ Galvanised steel

Feature:

- Strong Absorption capacity for the air dust, odour and other organic pollutants
- Widely used in various ventilation systems

Applications:

As prefilters for air conditioning systems, such as commercial buildings, hospitals, airports, etc. It can absorb odorous substances such as benzene, formaldehyde, ammonia and CO₂.

Technical data:

- G3~G4 EN799
- Average arrestance: 80%~94%
- Benzene absorption: ≥300 mg/g (fibers)
- Carbon content: ≥50%
- Max air flow rate: 125% of nominal air flow rate
- Final pressure drop: (recommend) 250Pa (fibers)
- Thermal Stability: 60%
- Humidity: 80%

Sample data:

W*H*D(mm)	Media	Filter Area(m ²)	Airflow(CMH)	Intial Pressure Drop(Pa)
595*595*25	Activated Carbon Fiber or particle	0.50	1000	90
295*595*25		0.25	500	90
595*595*45		1.10	2000	90
295*595*45		0.55	1000	90
595*595*95		2.00	3000	90
295*595*95		1.00	1500	90



Activated Carbon Panel filter

Structure:

Frame	Filter Media	Safe guard
Aluminum/ Galvanised steel/plastic	Granular activated carbon material	Plastic honeycomb and nylon mesh

Feature:

- Strong Absorption capacity for the air dust, odour and other organic pollutants
- Widely used in various ventilation systems

Technical data:

- Benzene absorption: ≥ 800 mg/g (fibers)
- Carbon content: $\geq 70\%$
- Max air flow rate: 125% of nominal air flow rate
- Final pressure drop: (recommend) 250Pa (fibers)
- Thermal Stability: 60%
- Humidity: 80%

Applications:

As prefilters for air conditioning systems, such as commercial buildings, hospitals, airports, etc. It can absorb odorous substances such as benzene, formaldehyde, ammonia and CO₂.

Sample data:

W*H*D(mm)	Media	Airflow(CMH)	Intial Pressure Drop(Pa)
595*595*25	Activated Carbon Particles	1000	50
295*595*25		500	50
595*595*45		1500	100
295*595*45		750	100



Activated Carbon Pocket filter



Structure:

Frame	Filter Media	Gasket
Aluminum/ Galvanised steel/plastic	Multi-layer synthetic fiber combined with Activated carbon granules	Aluminum/ Galvanised steel/plastic

Feature:

- Strong Absorption capacity for the air dust, odour and other organic pollutants
- Widely used in various ventilation systems

Applications:

As prefilters for air conditioning systems, such as commercial buildings, hospitals, airports, etc. It can absorb odorous substances such as benzene, formaldehyde, ammonia and CO₂.

Technical data:

- G4~F8 EN799; MERV6~15 (ASHRAE 52.2-2012)
- Max air flow rate: 125% of nominal air flow rate
- Final pressure drop: (recommend) 400~450Pa (M6-F8)
- Thermal Stability: 60%
- Humidity: 70%

Sample data:

W*H*D(mm)	Filter Class	Dust Spot Efficiency	Benzene Absorption	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
592*592*535	M6	60%-80%	≥220 mg/g	6.20	3400	120
287*592*535	M6	60%-80%	≥220 mg/g	3.10	1700	120
592*592*535	F7	80%-90%	≥200 mg/g	6.20	3400	140
287*592*535	F7	80%-90%	≥200 mg/g	3.10	1700	140
592*592*535	F8	90%-95%	≥180 mg/g	6.20	3400	160
287*592*535	F8	90%-95%	≥180 mg/g	3.10	1700	160



Activated Carbon filter

Activated Carbon V-bank filter



Structure:

Frame	Filter Media	Separator	Sealant
ABS without or with single header	Synthetic fiber, self-support, 60% activity carbon	Continuous thermoplastic cord	Polyurethane

Feature:

- Strong Absorption capacity for the air dust, odour and other organic pollutants
- Widely used in various ventilation systems

Applications:

As prefilters for air conditioning systems, such as commercial buildings, hospitals, airports, etc. It can absorb odorous substances such as benzene, formaldehyde, ammonia and CO₂.

Technical data:

- M6~F9 EN799
- Max air flow rate: 125% of nominal air flow rate
- Final pressure drop: (recommend) 450Pa
- Thermal Stability: 60%
- Humidity: 70%

Sample data:

W*H*D(mm)	Filter Class	Filter Area(m ²)	Airflow(CMH)	Initial Pressure Drop(Pa)
592*592*292	F8	18.0	3400	140
490*592*292	F8	15.0	1700	140
490*490*292	F8	12.5	3400	140
287*592*292	F8	8.5	1700	140
592*592*292	F9	18.0	3400	150
490*592*292	F9	15.0	3500	150
490*490*292	F9	12.5	2850	150
287*592*292	F9	8.5	2125	150

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