Rainbow FILTERS
THE CLEAN AIR PEOPLE

INDOOR AIR QUALITY PROVIDER

PROFESSIONAL

Quality Approved ISO 9001

Safety Approved AS/NZS 4801

JAS-ANZ

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EN 1822 2009
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RAINBOW FILTERS STORY

Since 1956

Edgar William Rainbow left school as soon as he turned 14 and worked in various workshops until 18 years old when he was called up for Military Service, in which he served but did not leave Australia. He was then able to join the RAAF where he trained as a pilot. War finished at about that time and he was discharged.

Eddie then took advantage of further education and joined Swinburne Tech where he completed a Mechanical Course. He then worked at the Metrology Labs for a couple of years and then joined Carrier Air-conditioning where he studied air-conditioning. After a few years gaining experience in business, and after Carrier decided to cease filter cleaning and maintenance, Eddie decided in 1955 to embark on setting up in a small way his own business.

First he bought a second hand standard Vanguard Panel van, he collected dirty filters, washed them in detergent, hosed them in the backyard with the garden hose and when applicable sprayed them with oil, used the household vacuum cleaner reverse action too, before returning them at the next service. This, at the same time Melbourne hosted the Olympic games, was the beginning of Rainbow Filters in 1956.

As the work increased and the noise was raising comment from an occasional neighbour another site was found at Percy Street, West Heidelberg. It was here that manufacturing filters really started and grew, larger premises were required and Eddie moved to Northern Road, West Heidelberg with a 5 year lease.

As the lease rate was going to increase greatly it was decided to move, a suggestion to inquire about 'decentralisation' was made and the result Wangaratta was the new home for Eddie, wife Phyllis and their 4 children.

In January 1974, the Hamer Government were very supportive and helped with moving costs etc. The service section and sales office remained at West Heidelberg. Manufacturing commenced in April 1974 where it still remains operative today.

In 2000, Eddie contacted Mike Pavey, who was working in the industry and asked if he was interested in working with him with the view to purchase Rainbow Filters. He did so and purchased the business in June 2002. Rainbow Filters run the sales office at Bayswater and have a state office in Alexandria NSW, appointed distributors in Perth, Darwin and Launceston. Rainbow Filters recently acquired AG&G Services, a cleanroom testing business.

3rd Party Certification

QUALITY ASSURANCE

RAINBOW FILTERS ARE A PRIVATELY OWNED AND OPERATED AUSTRALIAN COMPANY

Since 1956, Rainbow Filters has offered much more than air filters. In fact, we propose the highest quality air filtration solutions with huge advantages in terms of both effectiveness and economy. We have highly dedicated and well trained people who undergo constant development as part of our continuous improvement program for ISO 9001:2008 Quality Assurance, which we have held since 1994. Always at the forefront of technological evolution, Rainbow Filters puts its expertise at your service by combining the finest filtration products on the market with its own manufacturing capabilities.

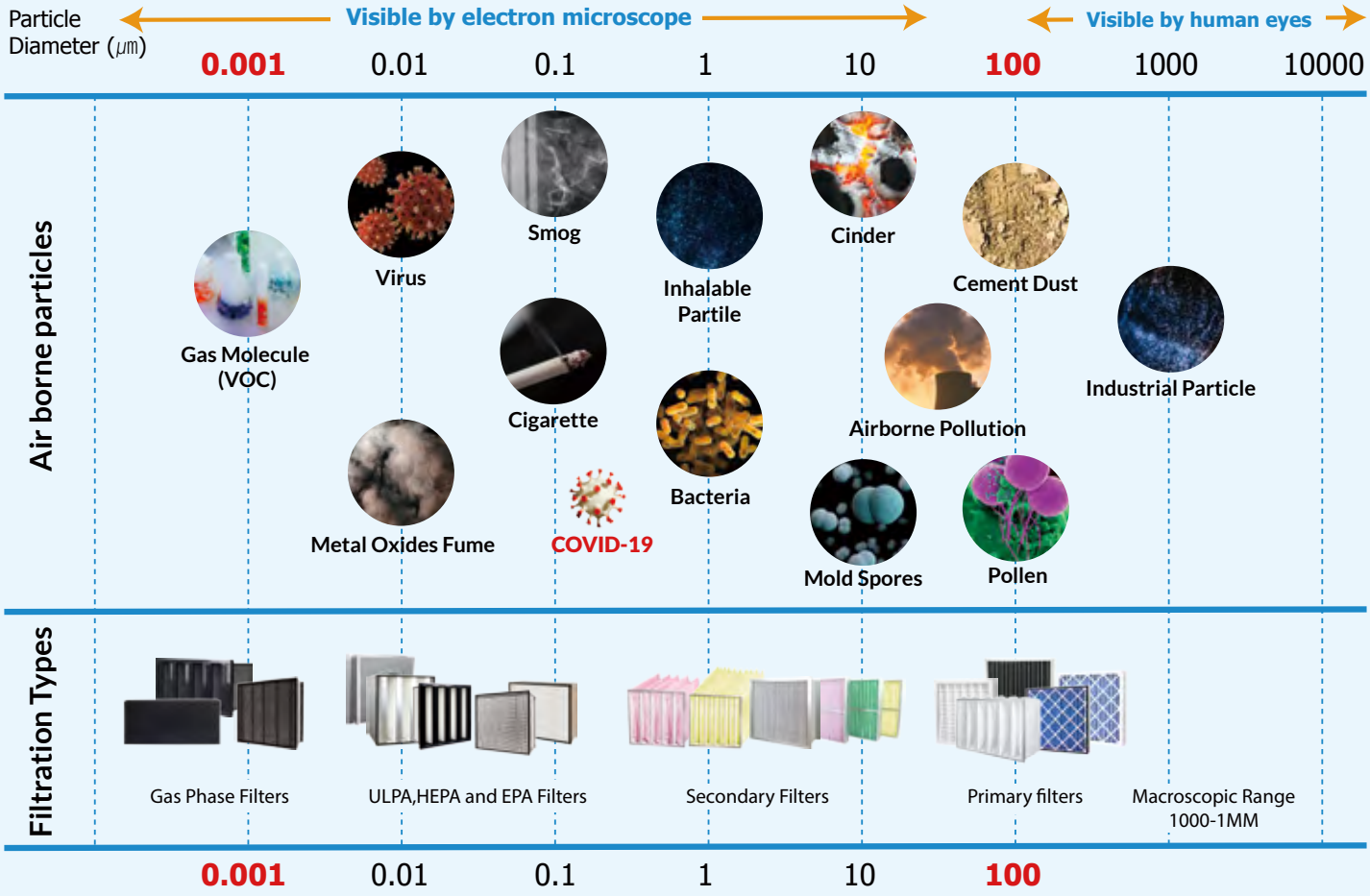
THUS, WE CAN OFFER MADE-TO-MEASURE SOLUTIONS WHICH

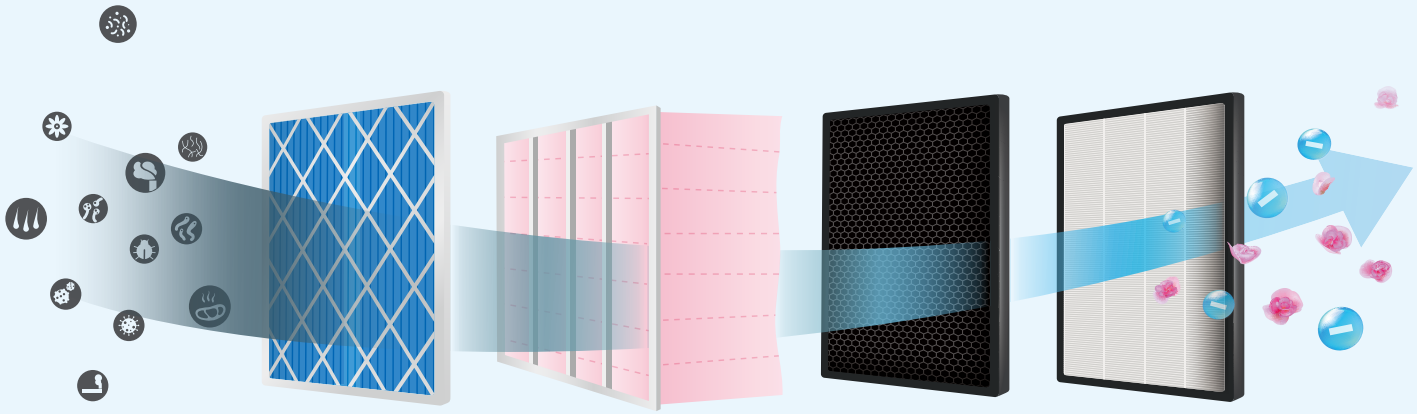
- Maintain or improve the filtration effectiveness of all your systems.
- Reduce maintenance expenses by way of filtration solutions that help increase the life of your installations.
- Assure the stated effectiveness of the filtration; this being dependent on both the quality of the proposed filters, and theway in which they are installed.
- Better protect your system's components.

WE ARE PROUD OF OUR STRONG COMPANY VALUES INCLUDING

- Safety as the highest priority.
- Long term employees.
- Repeat business via satisfied clients; and Honesty and integrity.

Airborne particles vs. Filtration types





Primary Filtration

- Cost saving, easy to install and high humidity resistant
- To filter large particlessuch as hair, dander, etc.
- Widely applied on all types of HVAC systems.

Secondary Filtration

- Ultrasonic welding Design
- High filtering efficiency and low pressure drop
- Suitable for all types of HVAC systems or the intake of gas turbines.

Gas Phase Filtration

- High concentration & activate carbon components
- Widely applied in semicon-ductor, TFT-LCD, micro electronics, pharmaceuti-cal, museums, archive rooms, cleanroom, airport traffic control tower, food processing industries, etc.

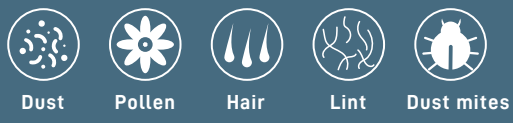
Medium & Final Filtration

- Specially designed for high humidity environments
- UL900 flame retardant certified
- Applied in hospitals, pharma-ceutical, aerospace, food industries and cleanroom

Air Filter Rating Table

Primary Filtration

1. PRIMARY



	EN 779 & EN 1882	ASHRAE 52.2	ASHRAE 52.1	
			Arrestance	Dust Spot
EN 779 : 2012	G1、G2	MERV 1-4	60-80%	<20%
	G3	MERV 5	80-90%	<20%
	G4	MERV 6	90-95%	20-30%
	G4	MERV 6-7	95%	25-30%
	G4	MERV 7-8	95-98%	30-40%

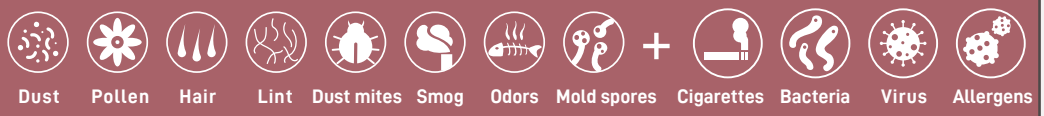
Secondary Filtration

2. SECONDARY

EN 779 : 2012	M5	MERV 8-9	98%	40-50%
	M5	MERV 9-10	99%	50-60%
	M6	MERV 10-11	99%	60-70%
	M6	MERV 12-13	99%	70-80%
	F7	MERV 13-14	99%	80-90%
	F8	MERV 14-15	99%	90-95%
	F9	MERV 15	99%	> 95%

Final Filtration HEPA/ULPA

3. HEPA/ULPA



		MPPS (Most Penetrating Particle Size)		DOP (0.3μm)			
EN 1822 : 2009	E10/H10	≧ 85%	MERV 16		≧ 95%	N/A	N/A
	E11/H11	≧ 95%	MERV 16		≧ 95%	N/A	N/A
	E12/H12	≧ 99.5%	MERV 16		≧ 99.9%	N/A	N/A
	H13	≧ 99.95%	N/A		≧ 99.97%	N/A	N/A
	H14	≧ 99.995%	N/A		≧ 99.99%	N/A	N/A
	U15	≧ 99.9995%	N/A		≧ 99.999%	N/A	N/A

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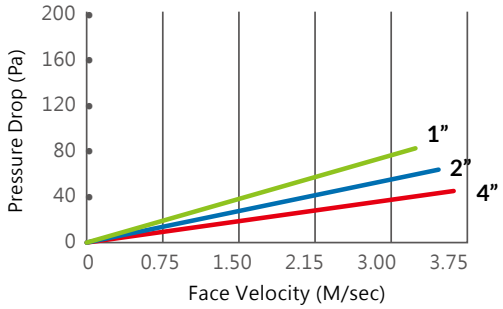
EN 779 2012 G4

Cardboard Framed Filters

Specifications

Frame: Rigid high wet-strength beverage board
Media: Synthetic fiber (non-woven)
Efficiency: G4 (EN779) / MERV8 (ASHRAE 52.2)
Sealant: EVA Adhesives
Safety grade: UL900
Max. Temperature: 70°C
Max. Relative Humidity: ≦95% RH
Rec. Final Pressure Drop: ≦200Pa

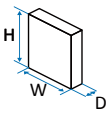


Advantages

- ✓ Lower pressure drop
- ✓ Easy to install in wide range of HVAC systems
- ✓ High moisture resistant
- ✓ Cost saving
- ✓ To extend life span

Applications

Prefilter ventilation system, factories, residential, commercial and industrial areas



Special Size Customized

Model No.	Nominal Size WxHxD (in.)	Actual Size WxHxD (mm)	Filter Rating (EN779:2012)	Air Flow High Capacity		Initial Resistance High Capacity		Recommended Final Resistance
				CFM	CMH	In W.G.	Pa	Pa
FAC1-06	24x24x1	595x595x22	G4	2000	3400	0.31	78	≤ 200 (0.8 In W.G.)
FAC1-08	12x24x1	290x595x22		1000	1700	0.31	78	
FAC1-02	20x20x1	496x496x22		1390	2360	0.31	78	
FAC2-06	24x24x2	595x595x45		2000	3400	0.27	68	
FAC2-08	12x24x2	290x595x45		1000	1700	0.27	68	
FAC2-11	20x24x2	495x595x45		1670	2840	0.27	68	
FAC2-02	20x20x2	496x496x45		1390	2360	0.27	68	
FAC2-04	20x25x2	495x622x45		1740	2960	0.27	65	
FAC4-06	24x24x4	595x595x95		2000	3400	0.26	65	
FAC4-08	12x24x4	290x595x95		1000	1700	0.26	65	
FAC4-02	20x20x4	495x495x95		1390	2360	0.26	65	
FAC4-04	20x25x4	495x622x95		1740	2960	0.26	65	

◎ Face Velocity: 2.5 M/S. ◎ Pressure drop tollerence: ±15% ◎ Other sizes are available upon request.

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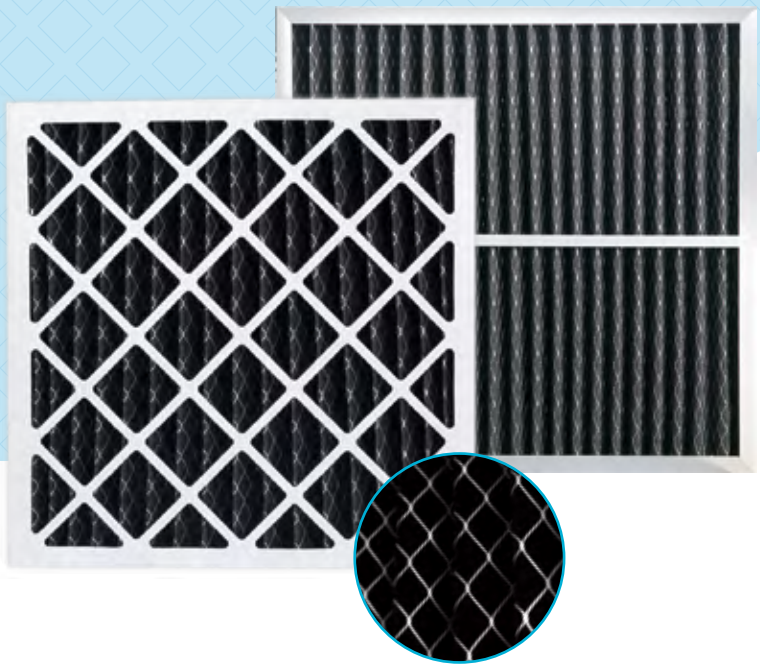
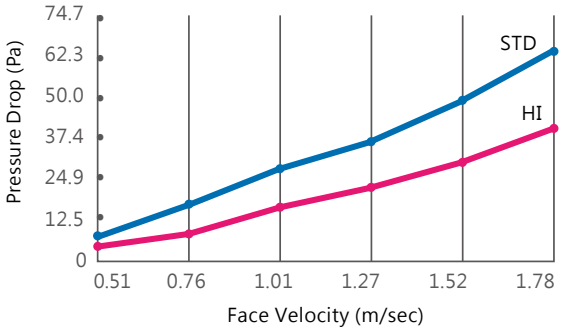


EN 779 2012 G4

Cardboard Carbon Pleated Filters

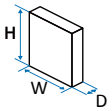
Specifications

Frame : Rigid high wet-strength beverage board / Galvanized Iron
Media : Polyester + active carbon
Efficiency : G4 (EN 779) / MERV 8 (ASHRAE 52.2)
Sealant : EVA Adhesives
Safety grade : UL900
Max. Temperature : 70°C
Max. Relative Humidity : ≦95% RH
Rec. Final Pressure Drop : ≦200 Pa



Advantages

- ✓ Lower pressure drop
- ✓ Easy to install in wide range of HVAC systems
- ✓ Effective gas phase filtration in a compact design
- ✓ Odors removal



Special Size Customized

Applications

Prefilter ventilation system, residential areas, commercial areas, food and beverage plants and pharmaceutical processing.

Active carbon pore volume

Better absorption for active carbon pore volume

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EN 779 2012 G2G G2W G3 G4

Non Woven Media Rolls

Specifications

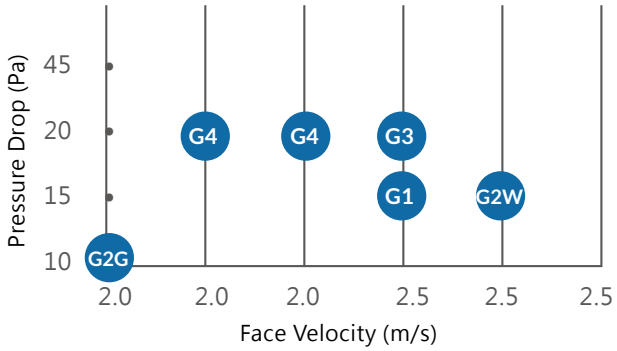
Media: Synthetic fiber (100% Polyester)
Efficiency: G2G、G2W、G3、G4
MERV 1~8 (ASHRAE 52.2)
Thickness: 2~50 mm
Max. Temperature: 100℃

Advantages

- ✓ Safe and easy to handle
- ✓ Flame retardant and moisture resistant
- ✓ 100% polyester bonded fibers
- ✓ Formed into interlocking patterns & trap dust & lint

Applications

Prefilter for air ventilation system & air-conditioning applications. Also used in food processing and medical facilities.



Note : The efficiency is subject to change by different sizes or media areas.

Special Size Customized

Size (WxL)	Thickness (mm)	Max. Temp. (℃)	Washable	Volocity (m/s)	Basis Weight g/㎡	Initial Resistance		Final Resistance		Filter Rating (EN779:2012)	Dust Holding Capacity (g/m2)	Dust Division (Thick, Fine, Micro)
						(mmAg)	(Pa)	(mmAg)	(Pa)			
1M*50M	3	100℃	O	2.5	125	3.0	29	15	147	G1 (MERV 1-4)	400	Thick dust
1M*50M	5	100℃	O	2.5	165	3.5	34	15	147	G2 (MERV 1-4)	400	Thick dust
1M*20M	10	100℃	O	2.5	210	4.7	46	20	196	G3 (MERV 5)	450	Thick dust
1M*20M	16	100℃	O	2.5	250	6.4	63	20	196	G3 (MERV 5)	450	Thick dust
1M*20M	20	100℃	O	2.0	310	6.5	64	20	196	G4 (MERV 6)	460	Thick dust
1M*20M	25	100℃	O	2.0	370	7.0	69	20	196	G4 (MERV 6)	520	Thick dust
1M*20M	30	100℃	O	2.0	395	7.5	74	20	196	G4 (MERV 6)	560	Thick dust
1M*20M	50	100℃	O	2.0	500	8.2	80	20	196	G4 (MERV 6)	600	Thick dust

◎ Tolerance Deviation of Thickness：±15% ◎ Pressure Drop Conversion: 1 mmAq = 9.81 PA

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EN 779 2012 G4 F5 F6 F7 F8

Multiwedge 2 & 3 Pocket Deep Bed Bag Filters

Specifications

Frame: Galvanized sheet metal for 20 mm header frame
Media: Synthetic fiber (100% Polyester)
Efficiency: G4 (EN 779) / MERV 8 (ASHRAE 52.2)
Thickness: 2~50 mm
Max. Temperature: 100°C

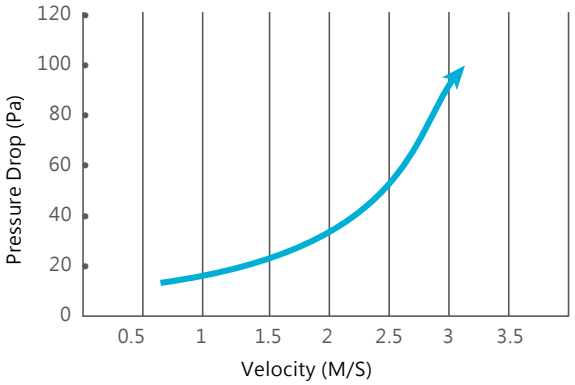
Advantages

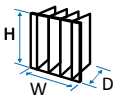
- ✓ All media types are moisture and fungus resistant and will not shed fibres into the clean air stream.
- ✓ The Filter Bag is sewn into three wedges. This gives a large media area in proportion to the face area and the depth of the filter.
- ✓ The media area gives the filter a very large dust holding capacity.

Applications

For general purpose filtration applications in industrial and commercial applications. The Multi-Wedge Deep Bed Filters are suited to non-critical applications or as a pre-filter to extend the life of the secondary filter.

The Multi-Wedge filter with 20mm Header Frame ↑ allows you to install into any 610 x 610 holding frame no matter the previous configuration of any other standard filter style.





Special Size Customized

Model No.	Actual Size WxHxD (mm)	No. of Pockets	Airflow Capacity L/S @2.45m/s	Filter Rating (EN779:2012)	Initial Resistance High Capacity		Recommended Final Resistance
					In W.G.	Pa	Pa
MW573HF-G4-06	610 x 610 x 570	3	944	G4	0.17-0.18	44-45	≤ 200 (0.8 In W.G.)
MW572HF-G4-08	610 x 305 x 570	2	472		0.17-0.18	44-45	

Model No.	Actual Size WxHxD (mm)	No. of Pockets	Airflow Capacity L/S @2.45m/s	Filter Rating (EN779:2012)	Initial Resistance High Capacity		Recommended Final Resistance
					In W.G.	Pa	Pa
MW573W-G4-06	610 x 610 x 570	3	944	G4	0.17-0.18	44-45	≤ 200 (0.8 In W.G.)
MW572W-G4-08	610 x 305 x 570	2	472		0.17-0.18	44-45	

◎ Face Velocity: 2.45 M/S. ◎ Pressure drop tollerence: ±15% ◎ Other sizes are available upon request.

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EN 779 2012 | G4 | F5 | F6 | F7 | F8

Mini Wedge Bag Filter

Specifications

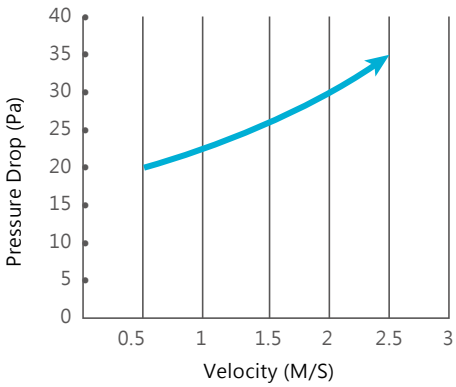
Frame: Galvanized sheet metal for 20 mm header frame
Media: Synthetic fiber (100% Polyester)
Efficiency: G4~F8 (EN 779) / MERV 8~14 (ASHRAE 52.2)
Thickness: 2~50 mm
Fire retardant grade: UL900
Max. Temperature: ≦ 70°C
Max. Humidity: ≦ 100% RH
Rec. Final Pressure Drop: ≦ 200 Pa

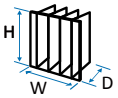
Advantages

✓ This media area gives the filter a very large dust holding capacity.

Applications

Synthetic pocket filters are used in both commercial and industrial applications and others such as hospital, schools and public building. They are installed in general air conditioning plants.





Special Size Customized

Model No.	Actual Size WxHxD (mm)	Airflow Capacity (l/sec)	Filter Rating (EN779:2012)	Initial Resistance High Capacity		Recommended Final Resistance
				In W.G.	Pa	Pa
MW90-G4-01	508 x 408 x 290	523	G4	0.14	35	≤ 200 (0.8 In W.G.)
MW90-G4-02	508 x 508 x 290	655				
MW90-G4-03	635 x 408 x 290	655				
MW90-G4-04	635 x 508 x 290	819				
MW90-G4-05	762 x 508 x 290	982				
MW90-G4-06	610 x 610 x 290	944				
MW90-G4-08	610 x 305 x 290	472				

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EN 779 2012 G4 F5 F6 F7 F8

Maxi Wedge Bag Filter

Specifications

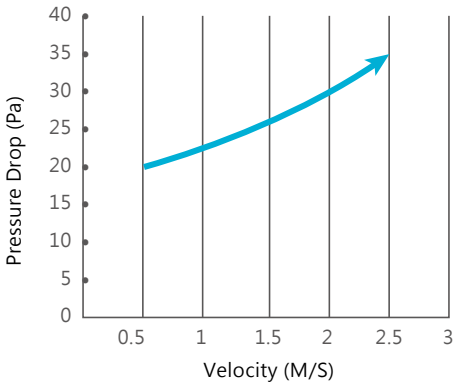
Frame: Galvanized sheet metal for 20 mm header frame
Media: Synthetic fiber (100% Polyester)
Efficiency: G4~F8 (EN 779) / MERV 8~14 (ASHRAE 52.2)
Thickness: 2~50 mm
Fire retardant grade: UL900
Max. Temperature: ≦ 70°C
Max. Humidity: ≦ 100% RH
Rec. Final Pressure Drop: ≦ 200 Pa

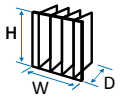
Advantages

✓ This media area gives the filter a very large dust holding capacity.

Applications

Synthetic pocket filters are used in both commercial and industrial applications and others such as hospital, schools and public building. They are installed in general air conditioning plants.





Special Size Customized

Model No.	Actual Size WxHxD (mm)	Airflow Capacity (l/sec)	Filter Rating (EN779:2012)	Initial Resistance High Capacity		Recommended Final Resistance
				In W.G.	Pa	Pa
MW80-G4-01	508x406x610	523	G4	0.14	35	≤ 200 (0.8 In W.G.)
MW80-G4-02	508x208x610	654				
MW80-G4-03	635x406x610	655				
MW80-G4-04	635x508x610	819				
MW80-G4-05	762x508x610	982				
MW80-G4-06	610x610x610	944				
MW80-G4-08	610x305x610	472				

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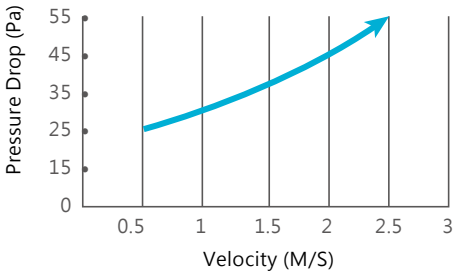
EN 779 2012 G4 F5 F6 F7 F8

FPR Four Peak Filter

Specifications

Frame: Galvanized sheet metal for 20 mm header frame
Media: Synthetic fiber (100% Polyester)
Efficiency: G4 (EN 779) / MERV 8 (ASHRAE 52.2)
Thickness: 2~50 mm
Fire retardant grade: UL900
Max. Temperature: ≦ 70°C
Max. Humidity: ≦ 100% RH
Rec. Final Pressure Drop: ≦ 200 Pa

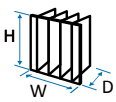


Advantages

- ✓ This media area gives the filter a very large dust holding capacity.
- ✓ High efficiency filtration with Low resistance
- ✓ Available for customized sizes
- ✓ The FPR filter is a high performance deep bed filter available in standard and reverse flow models, and a variety of efficiencies.
- ✓ The FPR filter allows even airflow throughout the filter with an open cross section design the metal frame and all wire media supporting frames are powder coated, gal or stainless to prevent orrosion and to provide a smooth, snag-free media supporting surface. Other types of media include gel-coated and dry.
- ✓ They are moisture, fire and fungus resistant and will not shed fibres into the clean air stream.

Applications

Synthetic pocket filters are used in both commercial and industrial applications and others such as hospital, schools and public building. They are installed in general air conditioning plants.



Special Size Customized

Model No.	Actual Size WxHxD (mm)	Airflow Capacity (l/sec)	Filter Rating (EN779:2012)	Initial Resistance High Capacity In W.G.	Initial Resistance High Capacity Pa	Recommended Final Resistance Pa
FPR-G4-06	610 x 610 x 381	944	G4	0.22	55	≤ 200 (0.8 In W.G.)
FPR-G4-08	610 x 305 x 381	472				

◎ The FPR filter can also be produced with reverse flow configurations if required.
◎ FPR Frame supplied separately.

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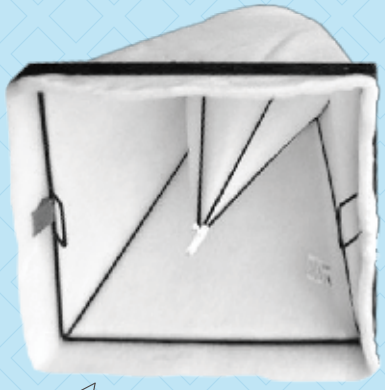


PCO BAG

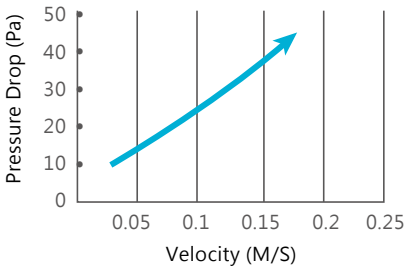
PCU BAG

EN 779 2012 G4

Pyracone&Pyracube Deep Bed Bag Filter

Specifications

Series : Bag Series
Media: Synthetic fiber (100% Polyester)
Efficiency: G4 (EN 779) / MERV 8 (ASHRAE 52.2)
Fire retardant grade: UL900
Max. Temperature: ≦ 70°C
Max. Humidity: ≦ 100% RH
Rec. Final Pressure Drop: ≦ 200 Pa



Advantages

✓ This media area gives the filter a very large dust holding capacity.

Applications

Synthetic pocket filters are used in both commercial and industrial applications and others such as hospital, schools and public building. They are installed in general air conditioning plants.

Special Size Customized

PCO/PCU BAG

Model No.	Actual Size WxHxD (mm)	Airflow Capacity (l/sec)	Filter Rating (EN779:2012)	Initial Resistance High Capacity		Recommended Final Resistance
				In W.G.	Pa	Pa
PCU-G4-06	610 x 610 x 660	944	G4	0.18	45	≤ 200 (0.8 In W.G.)
PCU-G4-08	610 x 305 x 660	472				
PCO-G4-06	610 x 610 x 660	944				
PCO-G4-08	610 x 305 x 660	472				

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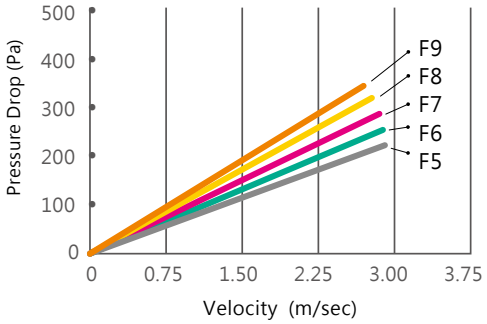
EN 779 2012 F5 F6 F7 F8 F9

Synthetic Pocket Filter Media-single Layer- Various

Specifications

Media: Synthetic fiber (100% Polyester)
Efficiency:
F5 (EN 799), 40-60% / MERV 10 (ASHRAE 52.2)
F6 (EN 779), 60-80% / MERV 11-12 (ASHRAE 52.2)
F7 (EN 779), 80-90% / MERV 13 (ASHRAE 52.2)
F8 (EN 779), 90-95% / MERV 14 (ASHRAE 52.2)
F9 (EN 779), >95% / MERV 15(ASHRAE 52.2)
Thickness: 2~50 mm
Max. Temperature: 100°C



Advantages

- ✓ Safe and easy to handle
- ✓ Flame retardant and moisture resistant
- ✓ 100% polyester bonded fibers
- ✓ Formed into interlocking patterns & trap dust & lint

Applications

Synthetic Pocket Media is used in both commercial and industrial applications, as well as hospitals, schools and public buildings.
It is installed in general air conditioning plants, in gas turbine equipment and in computer suites to protect equipment for longer service life.

Special Size Customized

Model No.		F5-FM-700/200	F6-FM-700/150	F7-FM-700/150	F8-FM-700/150	F9-FM-700/150
Efficiency		45%	65%	85%	90%	93%
Resistance		5	10	15	20	26
Colour		White	Green	Pink	Light Yellow	Deep Yellow
Pressure Drop mm/s	50	>300	>250	>120	>100	>70
	100	>550	>450	>200	>180	>130
	200	>1000	>800	>400	>350	>250

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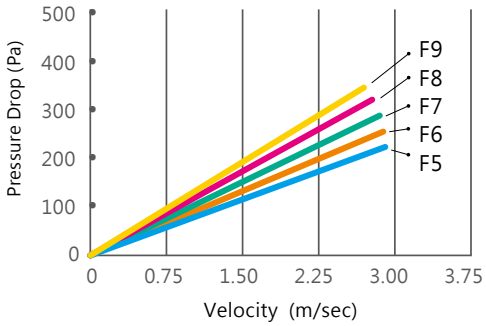
EN 779 2012 F5 F6 F7 F8 F9

Cardboard Disposable Filters

Specifications

Frame: High wet-strength cardboard
Media: Synthetic fiber & glass fiber
Efficiency:
F5 (EN 799), 40-60% / MERV 10 (ASHRAE 52.2)
F6 (EN 779), 60-80% / MERV 11-12 (ASHRAE 52.2)
F7 (EN 779), 80-90% / MERV 13 (ASHRAE 52.2)
F8 (EN 779), 90-95% / MERV 14 (ASHRAE 52.2)
F9 (EN 779), >95% / MERV 15(ASHRAE 52.2)
Fire retardant grade: UL900
Max. Temperature: ≦ 80°C
Max. Humidity: ≦ 100% RH
Rec. Final Pressure Drop: ≦ 350 Pa

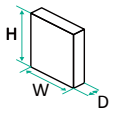


Advantages

- ✓ Increase energy efficiency and lower the air resistance
- ✓ Cost saving
- ✓ Reduce maintenance cost
- ✓ Minimize health hazards

Applications

Available for being applied in industrial, commercial AHU, cleanroom MAU system, variable air volume (VAV), ventilation systems, etc.



Special Size Customized

Model No.	Nominal Size WxHxD (in.)	Actual Size WxHxD (mm)	Filter Rating (EN779:2012)	Air Flow		Initial Resistance		Recommended Final Resistance
				CFM	CMH	W.G.	Pa	Pa
FAC2-F5-06	24×24×2	595×595×45	F5	2000	3400	0.41	105	≤ 350 (1.4 In W.G.)
FAC2-F5-08	12x24x2	290×595×45		1000	1700	0.41	105	
FAC4-F5-06	24x24x4	595×595×95		2000	3400	0.31	78	
FAC4-F5-08	12x24x4	290×595×95		1000	1700	0.31	78	
FAC2-F6-06	24×24×2	595×595×45	F6	2000	3400	0.51	128	
FAC2-F6-08	12x24x2	290×595×45		1000	1700	0.51	128	
FAC4-F6-06	24x24x4	595×595×95		2000	3400	0.41	105	
FAC4-F6-08	12x24x4	290×595×95		1000	1700	0.41	105	
FAC2-F7-06	24×24×2	595×595×45	F7	2000	3400	0.65	163	
FAC2-F7-08	12x24x2	290×595×45		1000	1700	0.65	163	
FAC4-F7-06	24x24x4	595×595×95		2000	3400	0.59	150	
FAC4-F7-08	12x24x4	290×595×95		1000	1700	0.59	150	
FAC2-F8-06	24×24×2	595×595×45	F8	2000	3400	0.72	180	
FAC2-F8-08	12x24x2	290×595×45		1000	1700	0.72	180	
FAC4-F8-06	24x24x4	595×595×95		2000	3400	0.67	170	
FAC4-F8-08	12x24x4	290×595×95		1000	1700	0.67	170	
FAC2-F9-06	24×24×2	595×595×45	F9	2000	3400	0.81	203	
FAC2-F9-08	12x24x2	290×595×45		1000	1700	0.81	203	
FAC4-F9-06	24x24x4	595×595×95		2000	3400	0.75	187	
FAC4-F9-08	12x24x4	290×595×95		1000	1700	0.75	187	

◎ Extra sizes are available on requests.

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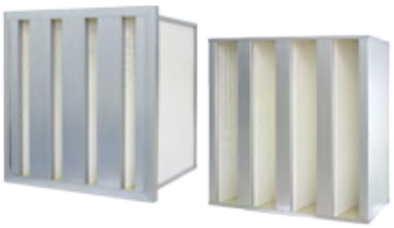
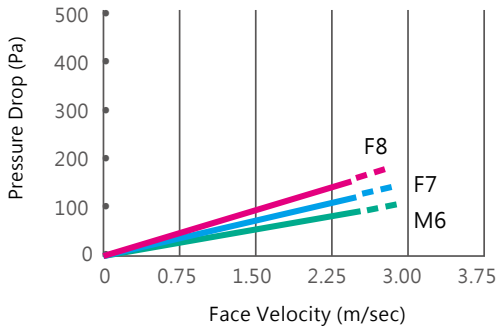
EN 779 2012 F6 F7 F8 F9

Multi V-Bank Mini pleat Filters



Specifications

Frame : Galvanized, Aluminum & ABS
Header : Single header, box type
Standard Type : 4V
(Plastic frame: only available for 4V)
Media : Synthetic fiber & glass fiber
Efficiency :
F6~F9 (EN 779) / MERV11~15 (ASHRAE 52.2)
Separator : hot melt
Sealant : Polyurethane (PU)
Flame Retardant Grade : UL900
Max. Temperature : ≦ 80°C
Max. Humidity : ≦ 100% RH
Rec. Final Pressure Drop : ≦ 350 Pa

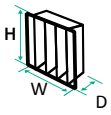


Advantages

- ✓ Lower resistance
- ✓ Cost saving
- ✓ Extend longer lifespan
- ✓ Higher dust holding capacity

Applications

Suitable for any applications such as PRE FILTER for power generating facilities or FINAL FILTER for high-tech industries.



Special Size Customized

Model No.	Actual Size WxHxD (mm)	Filter Rating (EN779:2012)	Air Flow High Capacity		Initial Resistance High Capacity		Recommended Final Resistance
			CFM	CMH	In W.G.	Pa	Pa
MRV-F6-290-06	610×610×292×4v	F6	2500	4250	0.41	105	≤350 (1.4 In W.G.)
MRV-F6-290-08	610×305×292×4v		1250	2125	0.41	105	
MRV-F7-290-06	610×610×292×4v	F7	2500	4250	0.47	120	
MRV-F7-290-08	610×305×292×4v		1250	2125	0.47	120	
MRV-F8-290-06	610×610×292×4v	F8	2500	4250	0.55	140	
MRV-F8-290-08	610×305×292×4v		1250	2125	0.55	140	
MRV-F9-290-06	610×610×292×4v	F9	2500	4250	0.55	140	
MRV-F9-290-08	610×305×292×4v		1250	2125	0.55	140	

◎ Face Velocity Standard Velocity: 2.5 M/S High Velocity: 3.2 M/S ◎ Extra sizes are available on requests.

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EN 779 2012 M5

600G Ceiling Filter

Specifications

Media：Non-woven polyester fiber
Efficiency：M5 (EN 779) / MERV 10 (ASHRAE 52.2)
Max. Temperature：≤100℃
Max. Humidity：≤100% RH
Rec. Final Pressure Drop：≤400 Pa

Advantages

- ✓ Lower pressure drop
- ✓ Cost saving
- ✓ Longer service life
- ✓ Thermally bonded and smoothed on the clean air side
- ✓ Made by non-breaking polyester fiber

Applications

Designed for the industrial areas, and also the best choices for fine filtration in air ventilation systems and units.

Filter Rating (EN779:2012)	M5/ F5
Efficiency (Dust Spot)	50%
Basis Weight Approx.	550 g/㎡
Thickness Approx.	22 mm
Thermal Stability (°C)	up to 100 °C
"Moisture Resistance, Related Humidity (%)"	up to 100%
Nominal Media Velocity	0.25 m/sec
Initial Pressure Drop	35 Pa/3.5 mmAg
Recommended Final Resistance	400 Pa/40 mmAg
Dust Holding Capacity	317 g/㎡
Free of Silicon	Paint Agreeable

Better filtration with actively adhesive on the inlet side better filtration on micro dust

Synthetic fiber non-breaking polyester fibers

Media well-attached with reinforcing scrim. Higher filtration areas and dust holding capacity

Special Size Customized

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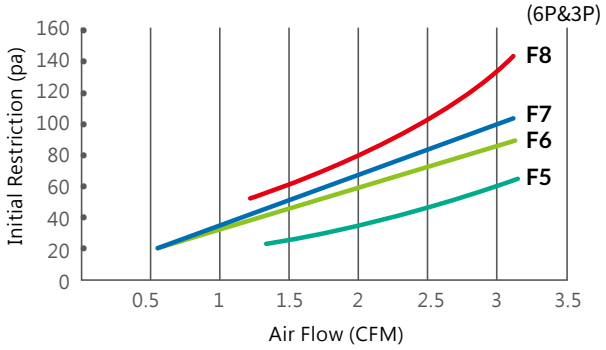
EN 779 2012 F5 F6 F7 F8

Multiwedge With Header Frame

Specifications

Frame: Galvanized sheet metal for 20 mm header frame
Media: Synthetic fiber, ultrasonic seaming
Efficiency:
F5 (EN 799), 40-60% / MERV 10 (ASHRAE 52.2) (Orange)
F6 (EN 779), 60-80% / MERV 11-12 (ASHRAE 52.2) (Green)
F7 (EN 779), 80-90% / MERV 13 (ASHRAE 52.2) (Pink)
F8 (EN 779), 90-95% / MERV 14 (ASHRAE 52.2) (Yellow)
Fire retardant grade: UL900
Max. Temperature: ≦ 80°C
Max. Humidity: ≦ 100% RH
Rec. Final Pressure Drop: ≦ 250 Pa

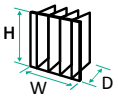


Advantages

- ✓ High efficiency filtration with Low resistance
- ✓ Available for customized sizes
- ✓ Gasketing available
- ✓ Ultrasonic welding design

Applications

Suitable for being used in commercial & industrial areas or hospitals, schools, public buildings. Also being applied in air conditioning plants, gas turbine equipment and cleanroom, etc.



Special Size Customized

Model No.	Actual Size WxHxD (mm)	No. of Pockets	Filter Rating (EN779:2012)	L/S@2.45 (m/s)	Air Flow		Initial Resistance		Recommended Final Resistance
					CFM	CMH	W.G.	Pa	Pa
MW528HF-F5-06	595 x 595 x 525	8	F5	944	2000	3390	0.20	52	≤ 250 (1.0 In W.G.)
MW526HF-F5-06	595 x 595 x 525	6		944	2000	3390	0.22	56	
MW523HF-F5-08	595 x 290 x 525	3		445	1000	1690	0.20	52	
MW528HF-F6-06	595 x 595 x 525	8	F6	944	2000	3390	0.25	64	
MW526HF-F6-06	595 x 595 x 525	6		944	2000	3390	0.27	68	
MW523HF-F6-08	595 x 290 x 525	3		445	1000	1690	0.25	64	
MW528HF-F7-06	595 x 595 x 525	8	F7	944	2000	3390	0.29	74	
MW526HF-F7-06	595 x 595 x 525	6		944	2000	3390	0.31	78	
MW523HF-F7-08	595 x 290 x 525	3		445	1000	1690	0.29	74	
MW528HF-F8-06	595 x 595 x 525	8	F8	944	2000	3390	0.39	98	
MW526HF-F8-06	595 x 595 x 525	6		944	2000	3390	0.41	104	
MW523HF-F8-08	595 x 290 x 525	3		445	1000	1690	0.39	98	

◎ Other sizes are available on request. ◎ The above filter sizes are available for 3, 4, 5, 6, 8, 10 & 12 pockets.

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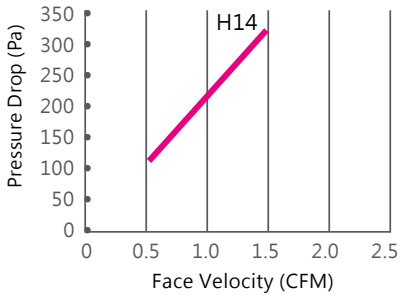
EN 1822 2009 H14

Minipleat HEPA Filter

Specifications

Frame : Extruded aluminum, Galvanized
Media : Glass fiber
Efficiency :
H14 (EN 1822) / MERV 19 (ASHRAE 52.2)
MPPS : ≥99.995% / DOP: ≥99.999%@0.3 μm
Separator : Hot melt
Sealant : Polyurethane (PU)
Flame Retardant Grade : UL900
Max. Temperature : ≦ 70°C
Max. Humidity : ≦ 100% RH
Rec. Final Pressure Drop : ≦ 500 Pa

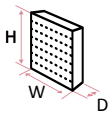


Advantages

- ✔ The extended media surface combined with precisely controlled bead separator pleating creates low resistance to air flow and saves energy consumption.
- ✔ The light weight of the HEPA filter assists easy installa tion.

Applications

All filters are individually tested to verify that each filter shipped meets the specified efficiency. They are designed for applications
such as health care, commercial, educational and industrial buildings.



Special Size Customized

Model No.	Actual Size WxHxD (mm)	Filter Rating (EN779:2012)	Air Flow High Capacity		Initial Resistance High Capacity		Recommended Final Resistance
			CFM	CMH	In W.G.	Pa	Pa
H14MP30330570	303×303×70	H14	208	350	1.00	250	≤ 500 (2.0 In W.G.)
H14MP45045040	450×335×100		357	610	1.00	250	
H14MP600335100	600×610×70		475	810	1.00	250	
H14MP610610150	610×610×150		890	1510	1.00	250	
H14MP91576290	915×762×90		1698	2880	1.00	250	
H14MP122061070	1220×610×70		1828	3100	1.00	250	
H14MP61061070	610×610×70		854	1450	1.00	250	
H14MP915610100	915×610×100		1356	2300	1.00	250	
H14MP95569070	955×690×70		1606	2730	1.00	250	
H14MP48448470	484×484×70		550	930	1.00	250	
H14MP50555570	505×555×70		662	1120	1.00	250	
H14MP81555570	815×555×100		1093	1860	1.00	250	
H14MP112055570	1120×555×70		1518	2580	1.00	250	

◎ Face Velocity: Standard Velocity: 0.6 M/S ◎ Extra sizes are available on requests.

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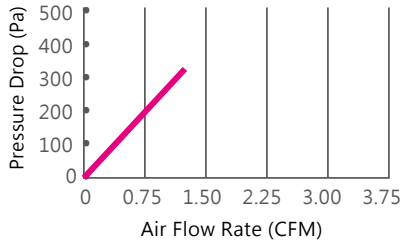
EN 1822 2009 H14

High Temperature Aluminium Separator HEPA

Provide HEPA separator box filters with more filtering areas (15% plus) and reducing pressure drop (10% minus), which makes its lifespan longer. (20% plus)

Specifications

Frame : Stainless Steel
Header : Box type, Single, Double header
Media : Wet-laid glass fiber
Efficiency :
H14 (EN 1822) / MERV 19 (ASHRAE 52.2)
MPPS : ≥99.995% / DOP: ≥99.999%@0.3 μm
Separator : Aluminum foil
Sealant : (1) Dow Corning adhesive (≤ 250°C)
(2) Ceramic adhesive (≤ 350°C)
Flame Retardant Grade : UL900
Max. Temperature : (1) ≤ 250°C
(2) ≤ 350°C
Max. Humidity : ≦ 100% RH
Rec. Final Pressure Drop : ≦ 500 Pa

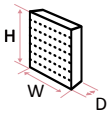


Applications

Available for being applied in pharmaceutical industry, food processing industry, hospitals, and aerospace.

Advantages

- ✓ Control airflow under high humidity
- ✓ Hammed edges eliminate possible pleat damage
- ✓ Extend life span with low initial resistance
- ✓ Comply with UL900 grade flame retardant



Special Size Customized

Model No.	Actual Size WxHxD (mm)	Filter Rating (EN779:2012)	Air Flow		Initial Resistance		Recommended Final Resistance
			High Capacity		High Capacity		
			CFM	CMH	In W.G.	Pa	Pa
H14HTAS990485150	990 x 485 x 150	H14	1324	2250	1.30	325	≤ 500 (2.0 In W.G.)
H14HTAS1200600220	1200 x 600 x 220		3873	6580	1.30	325	

◎ High Velocity: 2.5 M/S ◎ Customized sizes are avaiable upon request.

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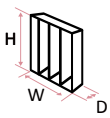
EN 1822 2009 | H11 | H13 | H14

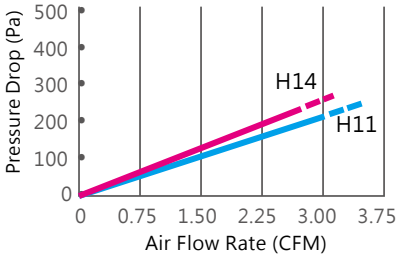
Multi V-bank HEPA Filter

Specifications

Frame : Galvanized, Aluminum, ABS
Header : Single header or box type
Media : Wet-laid glass fiber
Type : 3V, 4V, 5V, 6V
(Plastic frame: ONLY available for 4V)
Media : Wet-laid micro-glass fiber
Efficiency :
H11 (EN 1822) / MERV 16 (ASHRAE 52.2)
MPPS:≥95% / DOP: ≥99.9%@0.3 μm
H13 (EN 1822) / MERV 17-18 (ASHRAE 52.2)
MPPS: ≥99.95% / DOP: ≥99.99%@0.3 μm
H14 (EN 1822) / MERV 19 (ASHRAE 52.2)
MPPS : ≥99.995% / DOP: ≥99.999%@0.3 μm
Separator : Hot-melt adhesives
Sealant : Polyurethane (PU)
Flame Retardant Grade : UL900
Max. Temperature : ≦ 70°C
Max. Humidity : ≦ 100% RH
Rec. Final Pressure Drop : ≦ 600 Pa



Special Size Customized



Advantages

- ✓ Lower air pressure drop
- ✓ Cost saving
- ✓ Extend longer lifespan
- ✓ Higher dust holding capacity

Applications

Suitable for any applications such as PRE FILTER for power generating facilities or FINAL FILTER for high-tech industries. High volume filters are widely used in the area of repeated turbulent air flow, repeated fan shutdown, desert and marine installation.

Model No.	Nominal Size WxHxD (in.)	Actual Size WxHxD (mm)	Filter Rating (EN779:2012)	Air Flow High Capacity		Initial Resistance High Capacity		Recommended Final Resistance
				CFM	CMM	In W.G.	Pa	Pa
	24x24x12	610x610x292x4V	H11	2000	56.6	0.80	200	≤ 600 (2.4 In W.G.)
	24x24x12	610x610x292x5V		2000	56.6	0.80	200	
	12x24x12	305x610x292x3V		1000	28.3	0.72	180	
	24x24x12	610x610x292x4V	H13	2000	56.6	1.20	300	
	24x24x12	610x610x292x5V		2000	56.6	1.20	300	
	12x24x12	305x610x292x3V		1000	28.3	1.12	280	
	24x24x12	610x610x292x4V	H14	2000	56.6	1.20	300	
	24x24x12	610x610x292x5V		2000	56.6	1.20	300	
	12x24x12	305x610x292x3V		1000	28.3	1.12	280	

◎ Face Velocity: Standard Velocity: 2.5 M/S High Velocity: 3.2 M/S ◎ Customized sizes are avaiable upon request.

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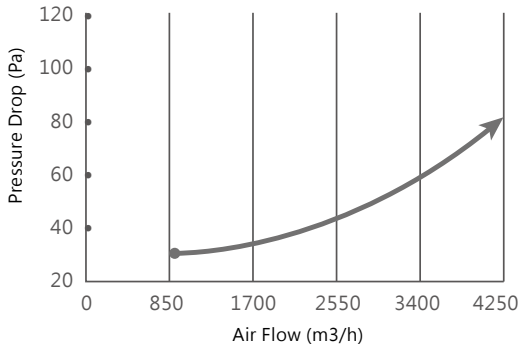
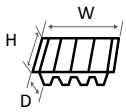
V Bank Gas Phase Filter

Specifications

Frame：Galvanized, Plastic
Media：Carbon loaded non-woven
Basis Weight：3200 g/㎡±10%
Max. Temperature：≦ 40°C
Max. Humidity：≦ 70% RH
Air permeability：> 100 cc/cm²/sec. (ASTM D737)
Carbon Loading：Avg. 1500g/m² ± 10%
Thickness：22 mm ± 5%





Special Size **Customized**

Advantages

- ✓ High contamination removal efficiency
- ✓ Odors control for demanding IAQ applications
- ✓ Available in a variety of styles to fit your HVAC retrofit needs
- ✓ Low pressure drop
- ✓ High carbon Loading
- ✓ High air permeability
- ✓ Excellent polishing filters where high contaminant concentrations are involved.
- ✓ Media options for improved removal of specific gases, such as ammonia & amines acid gas, VOCs

Applications

High Efficiency GAS PHASE filters are well suited for demanding HVAC applications in office buildings, hospitals, airports and other installations where indoor air quality problems can be found. The filters are offered in a variety of standard size which will easily fit into most existing HVAC units and new construction.

Model No.	Nominal Size WxHxD (in.)	Actual Size WxHxD (mm)	Contimination Removal	Weight (kgs)	Airflow (m3/h)	Initial Resistance (Pa)
MRV-CSC-06	24x24x12	592x592x295x4V	H2S, Acid gases, Formaldehyde, Ammonia, Aldehydes and Amines	16	3400	60
MRV-CSC-08	24x12x12	592x287x295x4V		8-9	1700	60

◎ Maximum operating temperature: under 40°C
◎ Maximum relative humidity: 70% ↓
◎ Cell sides: High Impact Polystyrene
◎ Disposal: Incineration

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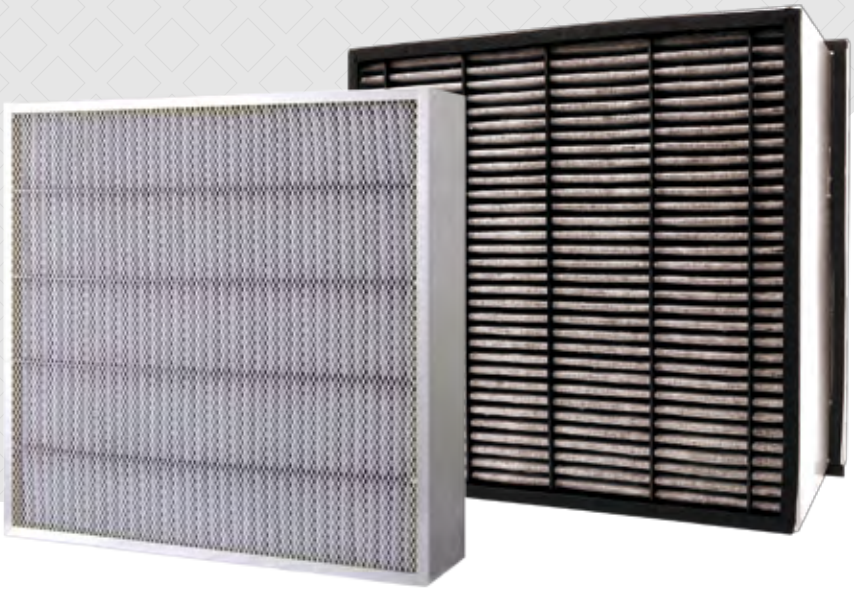

Carbon Loaded Web Type Chemical Filters

Specifications

Frame：Aluminum, Galvanized, Stainless Steel, Plastic
Header：Box type, single, double
Media：non-woven + activated carbon
Separator：plastic separator
Sealant：Polyurethane (PU)
Gasket：Neoprene rubber
Max. Temperature：≦ 50°C

Advantages

- ✓ High contamination removal efficiency
- ✓ Odors control for demanding IAQ applications
- ✓ Available in a variety of styles to fit your HVAC retrofit needs
- ✓ Low pressure drop
- ✓ High carbon Loading
- ✓ High air permeability
- ✓ Excellent polishing filters where high contaminant concentrations are involved.
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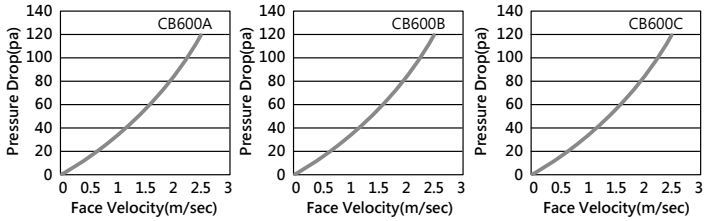
Applications

High Efficiency GAS PHASE filters are well suited for demanding HVAC applications in office buildings, hospitals, airports and other installations where indoor air quality problems can be found. The filters are offered in a variety of standard size which will easily fit into most existing HVAC units and new construction.

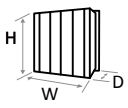
Media Specification

Media Type	CB600A	CB600B	CB600C
Media Thickness	2.5mm	2.5mm	2.5mm
Carbon Loading	600g/m²	600g/m²	600g/m²
Removal Odors	Acid HCl H2S SO2 NO2 H2SO4	Ammonia Amines	VOCs Cigarette Odors Hydrocarbons Food/Cooking Odors Exhaust Odors Diesel Fumes Ozone Industrial Odors Outdoor Pollutants

Pressure Drop VS. Face Velocity(m/sec)



Test Conditions: Chemical Filter (595*595*292mm)



Special Size Customized

Active carbon pore volume
Better absorption for active carbon pore volume

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Carbon Filter Media

Descriptions

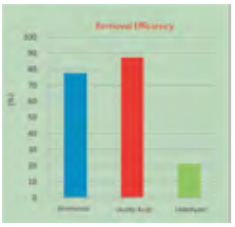
The activated carbon filter media is made of polyester (nonwoven) with coconut shell activated carbon, which is available bother in pads and rolls formats. They can be made and applied in pleated panel filters by cardboard frame or metallic frame options.
It can remove bad odors, smells, smoke, fumes, VOCs, etc. The high absorption and dust holding capacity with low pressure drop makes the media with longer service life and lost saving.

Specifications

Media：Synthetic Fiber (Polyester)
Material：Coconut shell activated carbon
Color：Black
Thickness & size：
A. Pads：Customized sizes are available upon requests
B. Roll size：Please refer to the data sheet below.

3mm Thick Carbon Filter Media

5mm Thick Carbon Filter Media



10mm Thick Carbon Filter Media

Advantages

- ✓ High absorption of odors, bad smells, smoke, fumes, gases, VOCs and harmful substances.
- ✓ high absorption capacity
- ✓ High dust holding capacity
- ✓ Low pressure drop
- ✓ Long service life and cost saving
- ✓ Easy to install

Applications

The activated carbon filter media are applied in clean-room, commercial & Industrial air ventilation systems, paint spray booth, food and beverage plants, chemical plants, and residential areas.

Active carbon pore volume

Better absorption for
active carbon pore volume

Special Size Customized

Model No.	Thickness	Max. Width	Max. Length	Efficiency	Basis Weight g/m²±10%	Carbon Loading
CM03-1200/100	3 mm ±10%	1.2 m	100 m	G4	180g	70 gsm
CM05-1200/50	5 mm ±10%	1.2 m	50 m	G4	300g	100 gsm
CM10-1200/30	10 mm ±10%	1.2 m	30 m	G4	300g	150 gsm

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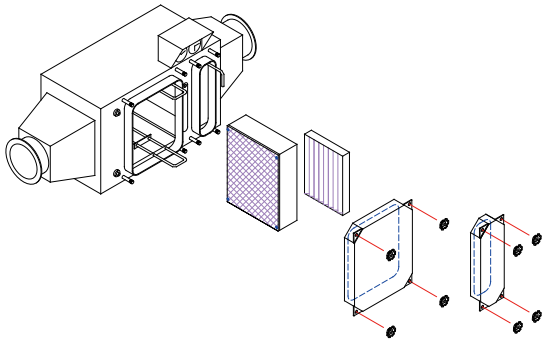
Bag-in & Bag-out Filter System



Applications

- ✔Bag-in & Bag-out Filter system provide a wide performance for preventing the workers from bio-hazard organisms and viruses while they are doing the regular HEPA or ULPA filter replacement work.
- ✔It is the most effective equipment available for any zone, needing a special critical filtration cleanliness level and negative pressure environment.
- ✔Bag-in & Bag-out Filter system includes pre-filter (and maintenance access door), HEPA or ULPA filter (and maintenance access door), inlet & outlet connecting duct flange unit, frame and mounting bracket.
- ✔The equipment is full welded with argon welding except maintenance access door. It can be made not only at workshop but on site also.
- ✔Magnehelic gauge becomes standard for pre-filter, and ULPA or HEPA filter.

Item		BI-56	BI-71	BI-85	BI-113	BI-142	BI-226	BI-339
Outside Dimension	W	1030	1030	1030	1030	1030	1030	1030
	D	700	855	1010	1315	855	1315	1315
	H	780	780	780	780	1600	1600	2420
Body Construction		2.5t SUS Stainless Steel						
HEPA	Features	Large air volume ، Efficiency 99.99% ، 0.3μm (Galvanized frame) ، 290t ، Initial static pressure 350Pa						
	Dimension	610×610×1	760×610×1	915×610×1	610×610×2	760×610×2	610×610×4	610×610×6
Pre-Filter	Features	Paper frame ، glass fiber ، 48t						
	Dimension	595×595×1	750×595×1	900×595×1	595×595×2	750×595×2	595×595×4	595×595×6
Air Volume (CFM)		2000	2500	3000	4000	5000	8000	12000
UV Light		15W×1	15W×1	15W×1	15W×1	15W×2	15W×2	15W×3
PE asepsis bag		×2	×2	×2	×2	×4	×4	×6
Power Supply		AC 1Ø ☐ 110V ☐ 220V ، 50/60Hz						

※ Customized size and specification are available to meet customer's requirements.

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