

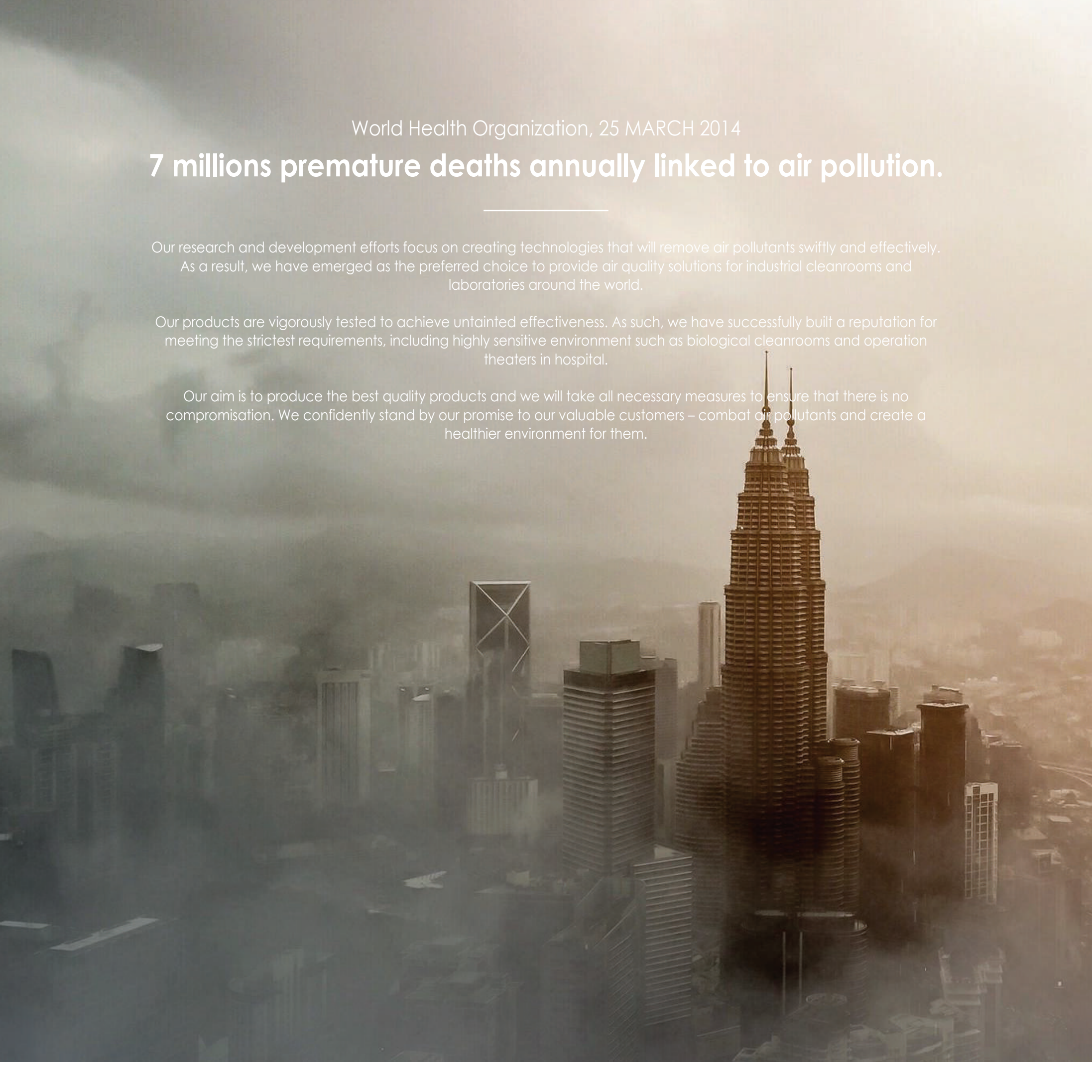




www.pureairtech.ae

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World Health Organization, 25 MARCH 2014

7 millions premature deaths annually linked to air pollution.

Our research and development efforts focus on creating technologies that will remove air pollutants swiftly and effectively. As a result, we have emerged as the preferred choice to provide air quality solutions for industrial cleanrooms and laboratories around the world.

Our products are vigorously tested to achieve untainted effectiveness. As such, we have successfully built a reputation for meeting the strictest requirements, including highly sensitive environment such as biological cleanrooms and operation theaters in hospital.

Our aim is to produce the best quality products and we will take all necessary measures to ensure that there is no compromise. We confidently stand by our promise to our valuable customers – combat air pollutants and create a healthier environment for them.

Combating Air Pollutants, Purifying And Changing **The Environment For A Better Future**

MayAir Group is well-known in leading the industry for manufacturing, developing and providing air filtration equipment as well as clean air solutions.

With more than 20 years of experience and breakthrough, MayAir stands proven as a dependable producer and developer of highly effective air filtration equipment and clean air solutions.

Our mission – Deliver clean and health-worthy air.





Creating Clean Air Solutions For A **Sustainable** Future

At MayAir, we believe that we all deserve a healthier environment and better quality of life.
This is why we work constantly to continue to create and innovate our highly effective clean air solutions.
Clean Air. Our Future.

Core Values

Our core values drive our performance and central our client servicing strategy.



Excellence

We always pursuing and performing the best effort to create highly effective clean technology solutions. Excellence is the gradual result of always striving to do better.



Innovation

We continually challenge ourselves to explore new and better ways in delivering the best-fit servicing so that our customer can realize their vision. We believe that innovation will lead us ahead in the market.



Commitment

We are passionate in providing the best products and solution to our customer. Our priority is to provide the customer with full support throughout their whole procurement journey.



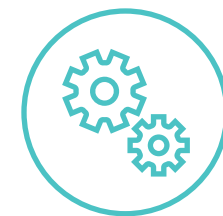
Reliability

We emphasize the quality of measurement by ensuring all products are produced with the highest grade along with conforming every standards & requirement.



Customer satisfaction

Every customer is treated with honor. Meeting their needs remain our highest priority. We work to understand each need, recommend the best solutions, and ensure fulfilment of requirement.



Teamwork

Every employee playing an important role, where accountability, integrity and unity are the key factors to inherent. Teamwork is the secret that makes common people achieve uncommon results.

Standards Comparisons Chart

U.S. STANDARDS					EUROPEAN STANDARDS				APPLICATIONS	
Air Filter Standard	ASHRAE 52.2 (2017)	Particle Size Efficiency			Test Aerosol Information	EN779		EN1822		
		3-10um	1-3um	0.3-1um						
PRIMARY FILTER	MERV 1	<20%			Average Arrestance of synthetic dust	G 1	<65%		Gross filter, domestic and commercial	
	MERV 2	<20%				G 2	65-80%			
	MERV 3	<20%								
	MERV 4	<20%								
	MERV 5	>20%				G 3	80-90%		Commercial, industrial, paint shop	
	MERV 6	>35%								
	MERV 7	>50%				G 4	>90%			
	MERV 8	>70%	>20%							
SECONDARY FILTER	MERV 9	>75%	>35%		Average Efficiency at 0.4um particles Test Aerosol : DEHS	M 5	40-60%		IAQ concerned commercial, industrial, medical	
	MERV 10	>80%	>50%							
	MERV 11	>85%	>65%	>20%			M 6	60-80%		
	MERV 12	>90%	>80%	>35%						
	MERV 13	>90%	>85%	>50%			F 7	80-90%		IAQ concerned commercial, industrial, medical, food etc.
	MERV 14	>95%	>90%	>75%			F 8	90-95%		
	MERV 15	>95%	>90%	>85%			F 9	>95%		
	MERV 16	>95%	>95%	>95%						
EPA FILTER					Integral Efficiency at MPPS Test Aerosol : DOP		E 10	85%	All types of cleanrooms	
							E 11	95%		
							E 12	99.5%		
HEPA FILTER							H 13	99.95%		
							H 14	99.995%		
ULPA FILTER										
							U 15	99.9995%	Superior cleanroom	
							U 16	99.99995%		
							U 17	99.999995%		

ASHRAE 52.2

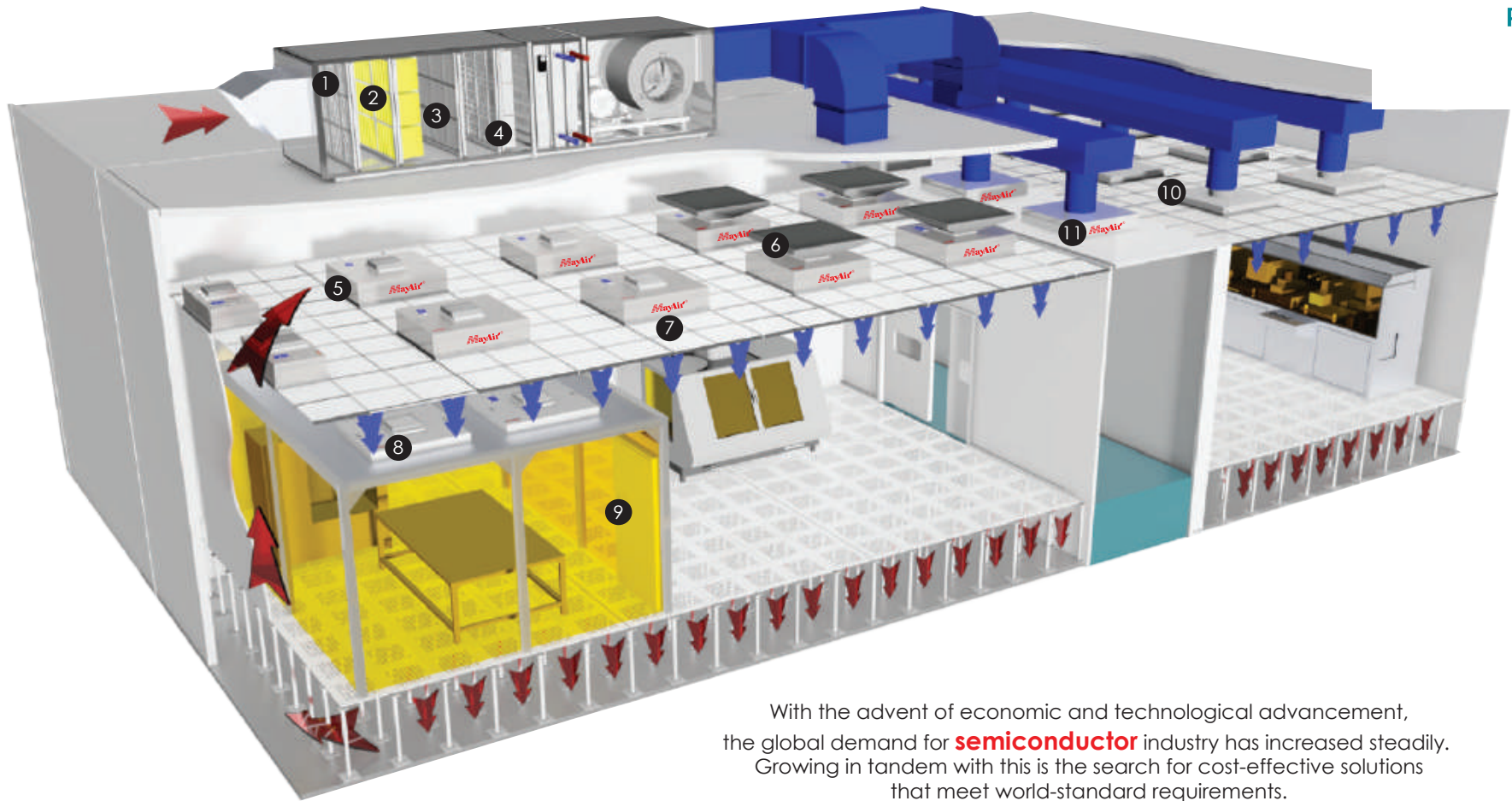
Filter testing was originated from America in 1930 (ASHVE and AFI code). It was then reviewed and modified in 1967 and 1968. ASHRAE collaborated with American National Standard Institute (ANSI) in 1992 to create ASHRAE-ANSI 52.1. Final update for ASHRAE 52.2 was in 2017.

EN 779

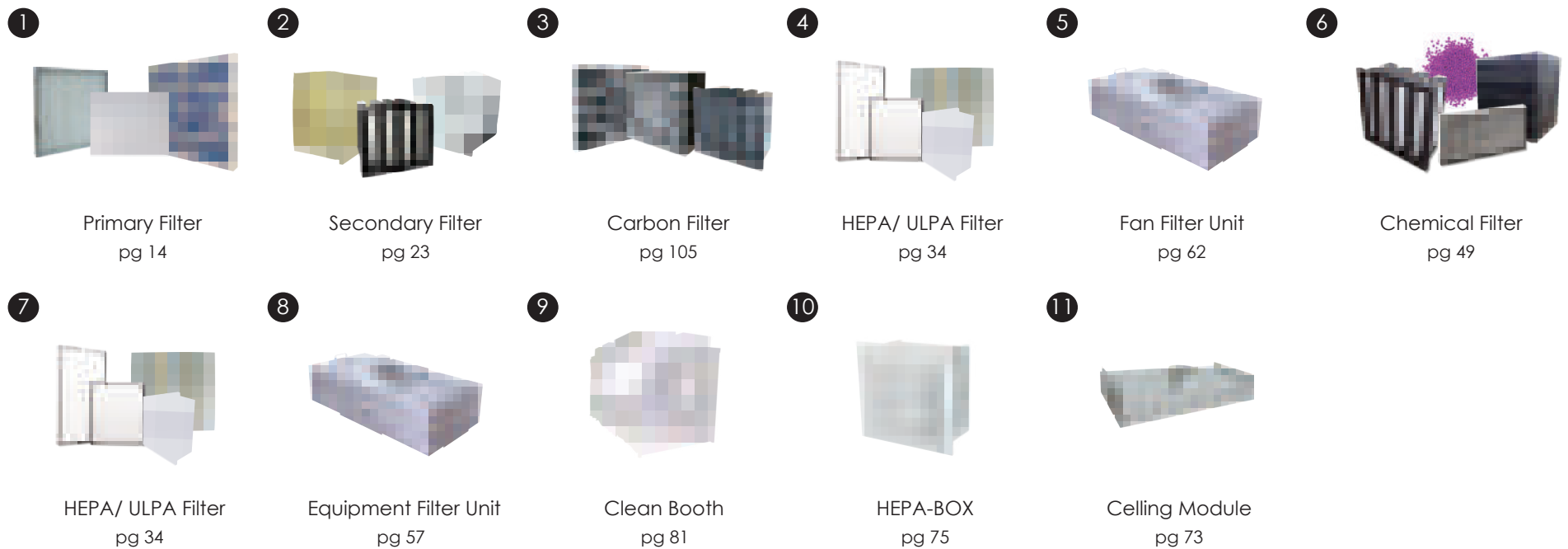
It was the first European's Air filter test method in 1993, built on the foundations of Eurovent 4/5. This standard was modified later in 2002 and 2012. Only covers primary and secondary filters.

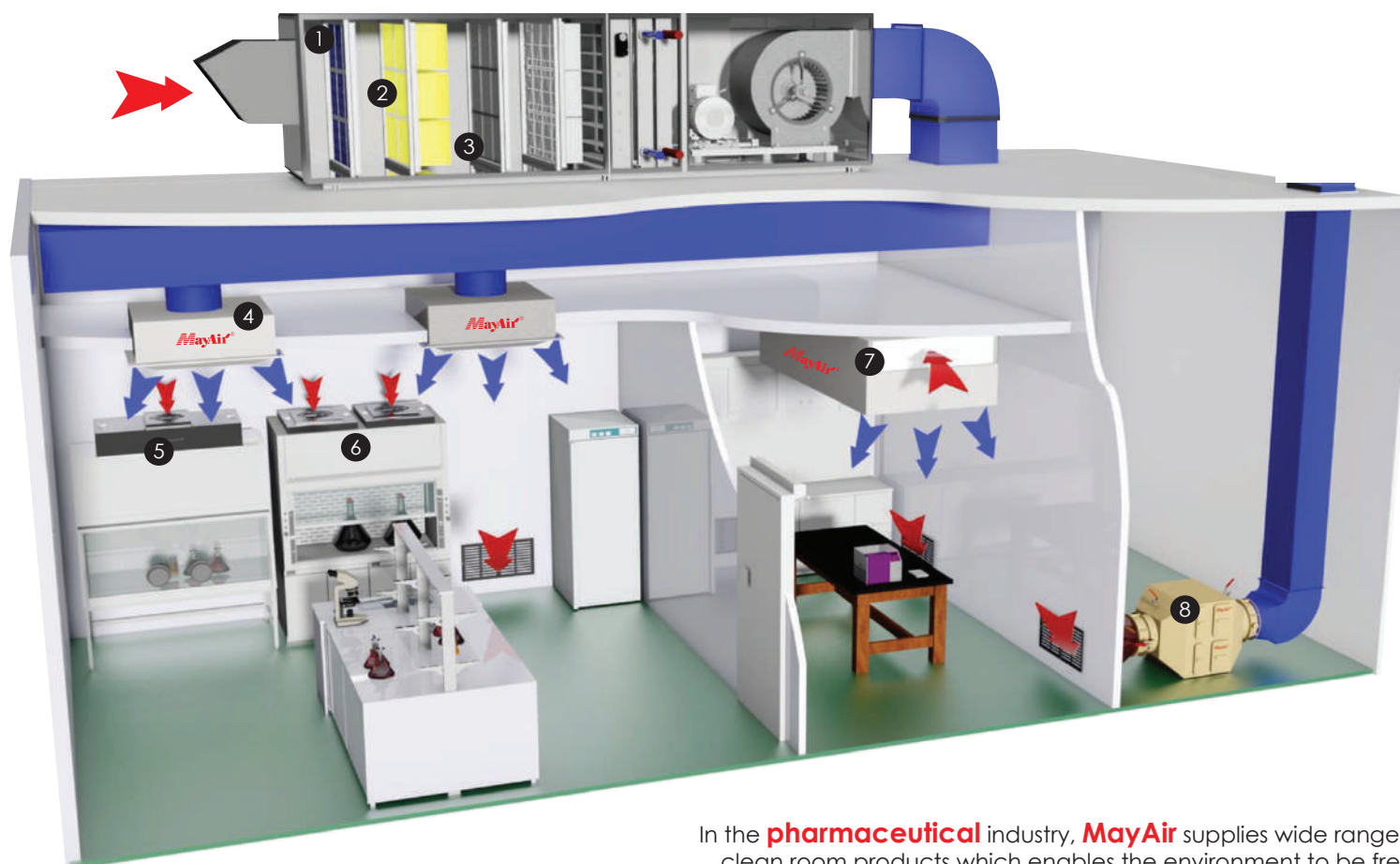
EN 1882

It is the improvisation from Eurovent 4/4 in 1998. This standard was modified only once in 2010. It covers high efficiency filters (E10 and above).



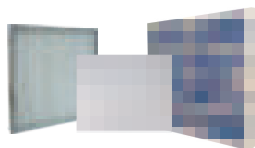
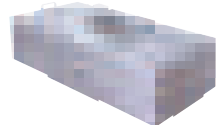
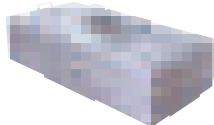
Recommended range of products:

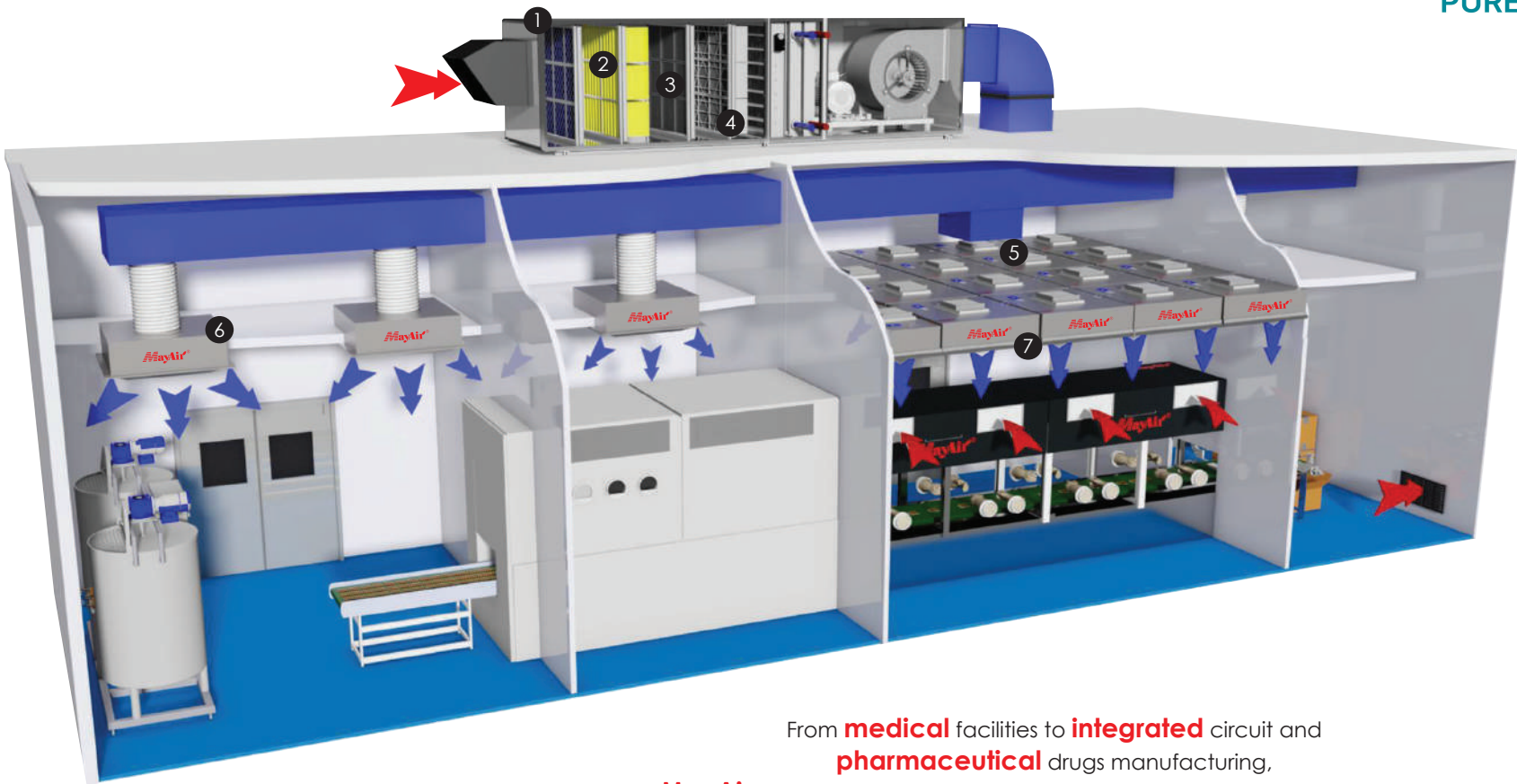




In the **pharmaceutical** industry, **MayAir** supplies wide ranges of clean room products which enables the environment to be free from microbial and particulate contamination.

Recommended range of products:

- | | | | | | |
|---|--|---|--|---|---|
| <p>1</p>  <p>Primary Filter
pg 14</p> | <p>2</p>  <p>Secondary Filter
pg 23</p> | <p>3</p>  <p>Carbon Filter
pg 105</p> | <p>4</p>  <p>Ceiling Module
pg 73</p> | <p>5</p>  <p>Equipment Filter Unit
pg 57</p> | <p>6</p>  <p>Fan Filter Unit
pg 62</p> |
| <p>7</p>  <p>Laminar Air Flow Hood
pg 77</p> | <p>8</p>  <p>Bag-In-Bag-Out
pg 74</p> | | | | |



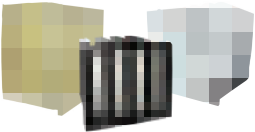
From **medical** facilities to **integrated** circuit and **pharmaceutical** drugs manufacturing, **MayAir** plays a pivotal role in providing clean air solutions and equipment.

Recommended range of products:

- 1



Primary Filter
pg 14
- 2



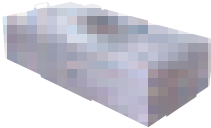
Secondary Filter
pg 23
- 3



Carbon Filter
pg 105
- 4



HEPA/ ULPA Filter
pg 34
- 5



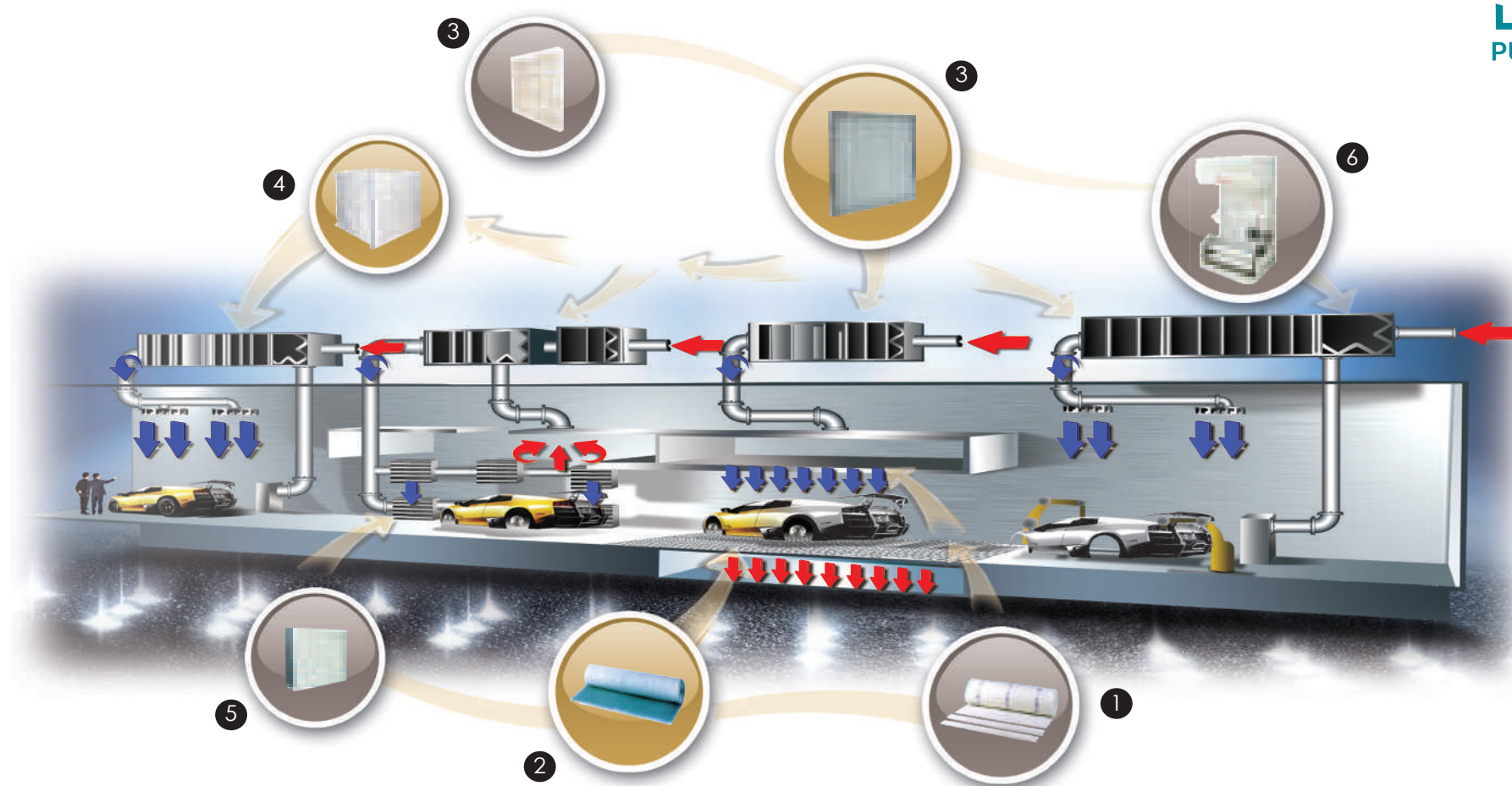
Fan Filter Unit/
Equipment Filter Unit
pg 62/57
- 6



Celling Module
pg 73
- 7

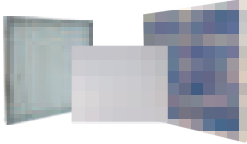


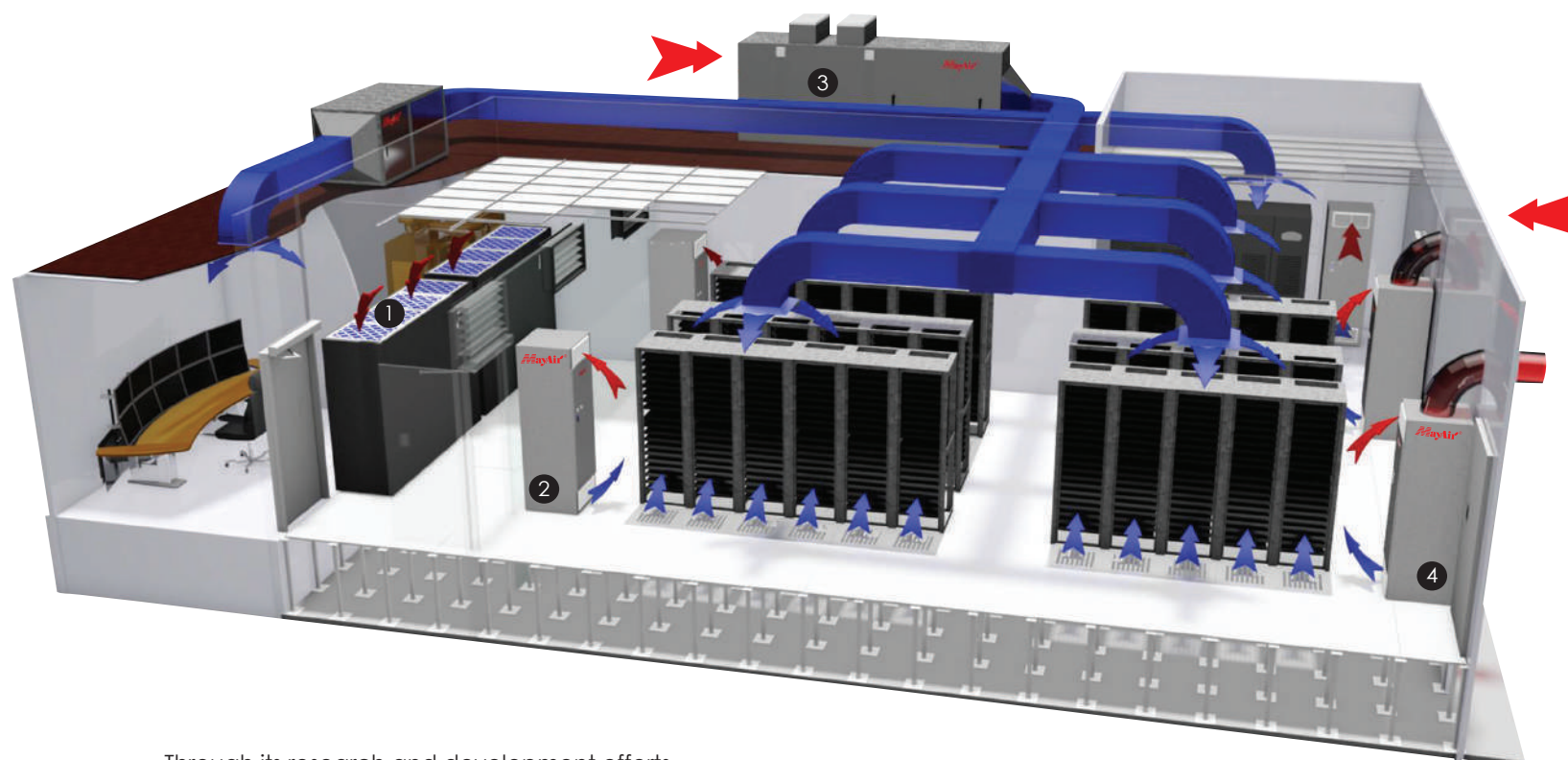
HEPA/ ULPA Filter
pg 34



MayAir clean solution technology fit well into **automobile painting** by delivering effective filtration products and equipment.

Recommended range of products:

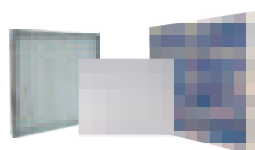
- | | | | | | |
|---|---|--|---|---|---|
|  |  |  |  |  |  |
| 1
Ceiling-Mounted
Filter Media
pg 20 | 2
Paint Mist Mat
pg 21 | 3
Primary Filter
pg 14 | 4
Secondary Filter
pg 23 | 5
HEPA/ ULPA Filter
pg 34 | 6
Autoroll Filter
pg 71 |



Through its research and development efforts,
MayAir has created a wide range of solutions and products
 that suit the needs of various industrial **clean room** facilities, especially for **data centers**.

Recommended range of products:

1



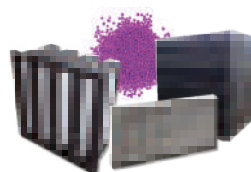
Primary Filter
pg 14

2



Indoor
Recirculation Unit
contact MayAir
for product specifications

3



Chemical Filter
pg 49

4

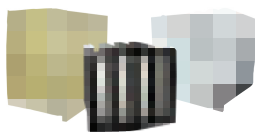
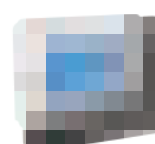


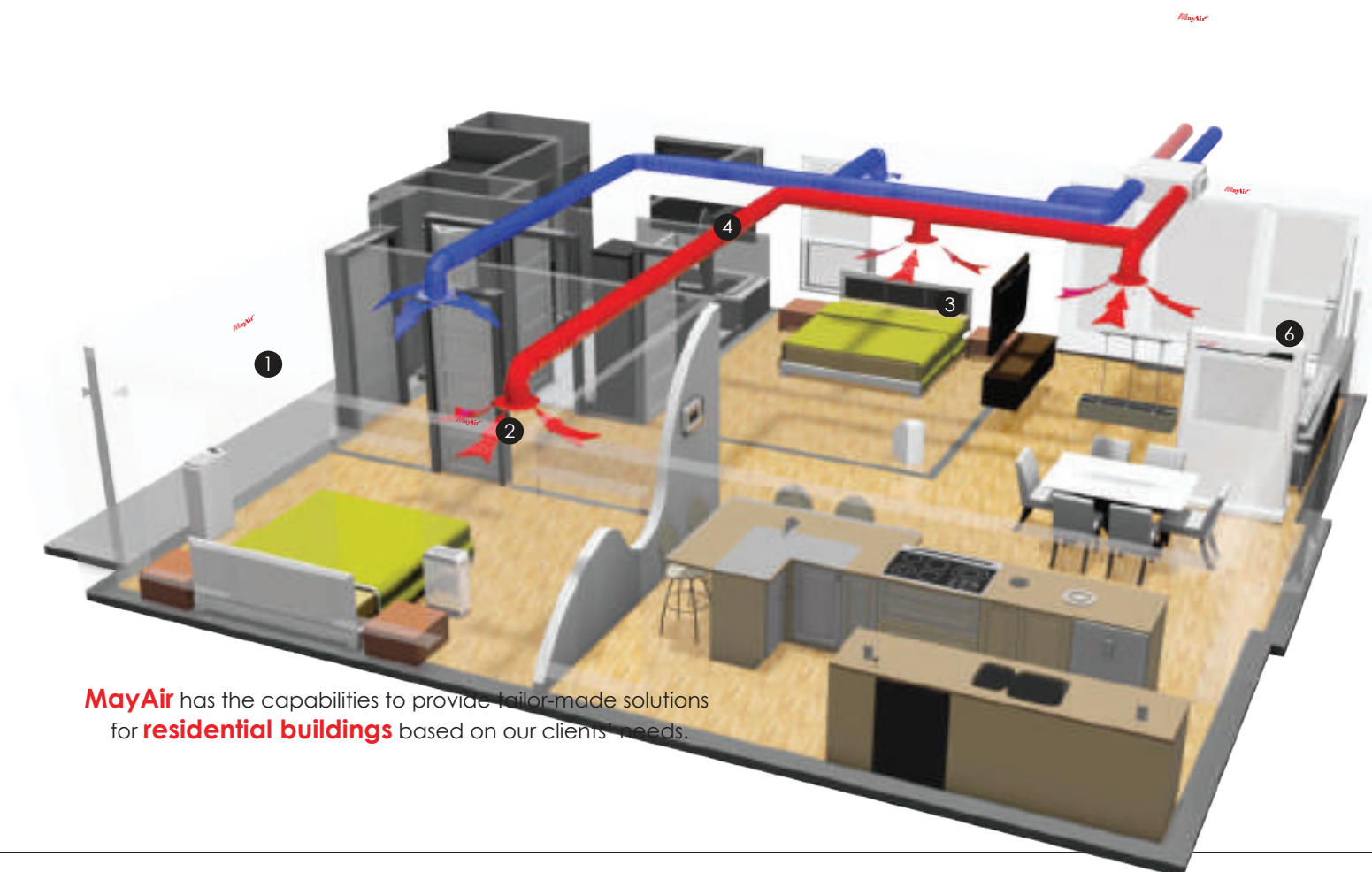
Indoor
Pressurization Unit
contact MayAir
for product specifications



MayAir has the right expertise to recommend the best solutions and products for **commercial buildings** to generate clean air.

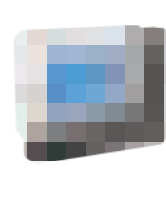
Recommended range of products:

- | | | | | | |
|--|---|--|--|---|--|
| <p>1</p>  <p>Primary Filter
pg 14</p> | <p>2</p>  <p>Electronic Air Cleaner
pg 82</p> | <p>3</p>  <p>Secondary Filter
pg 23</p> | <p>4</p>  <p>Fresh Air System
pg 86</p> | <p>5</p>  <p>Wall-mounted Air Purifier
pg 93</p> | <p>6</p>  <p>Online Monitoring System
contact MayAir
for product specifications</p> |
| <p>7</p>  <p>Intelligent Fresh Air System
contact MayAir
for product specifications</p> | <p>8</p>  <p>Germicidal Air Purifier
pg 94</p> | <p>9</p>  <p>Germicidal Air Purifier
contact MayAir
for product specifications</p> | | | |

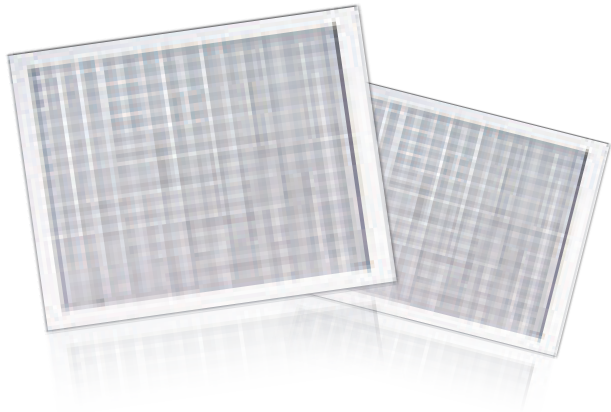


MayAir has the capabilities to provide tailor-made solutions for **residential buildings** based on our clients' needs.

Recommended range of products:

- | | | | | | |
|--|--|---|--|--|--|
| <p>1</p>  | <p>2</p>  | <p>3</p>  | <p>4</p>  | <p>5</p>  | <p>6</p>  |
| <p>Intelligent Fresh Air System
contact MayAir
for product specifications</p> | <p>Residential Air Purifier
contact MayAir
for product specifications</p> | <p>Residential Air Purifier
contact MayAir
for product specifications</p> | <p>Online Monitoring System
contact MayAir
for product specifications</p> | <p>Fresh Air System
pg 86</p> | <p>Germicidal Air Purifier
pg 94</p> |

Metal Mesh Filter
M-NET



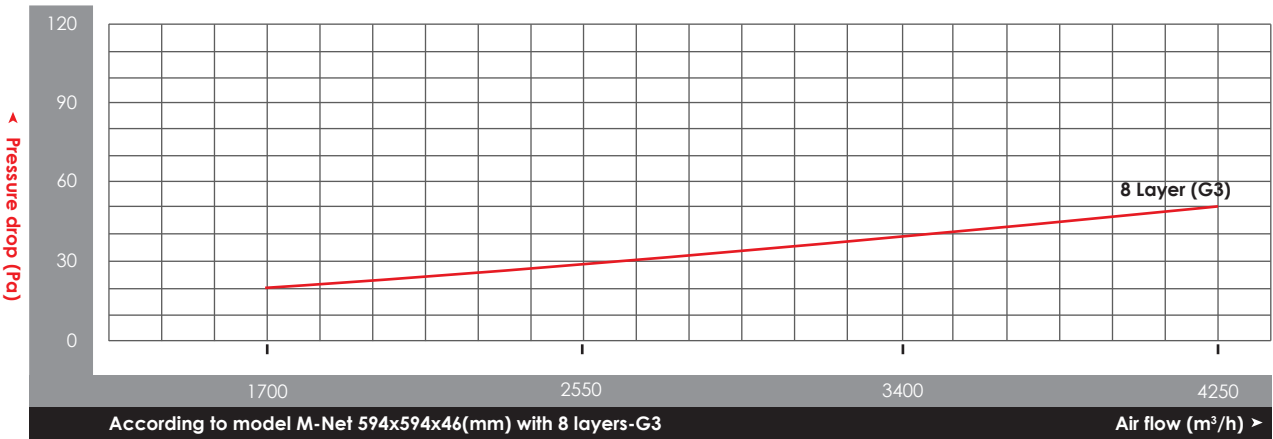
Applications

-  Commercial Building
-  Industrial
-  General

Product Features

- Operating Conditions**
Continuous operating temperature: Max. 93°C
Operating relative humidity: ≤100 (%RH) 
- Frame**
Material: Extruded aluminium / galvanised steel / stainless steel (ABS Angle)
Thickness: 10mm*, 12mm, 21mm, 23mm*, 46mm, 96mm* 
- Media**
Material: Aluminium mesh 
- Corrosion-free**
High-strength aluminium mesh 
- Efficiency (EN779:2012)**
G2, G3 
- High Temperature Resistant**
High-strength aluminium mesh 
- Washable**
Washable aluminium mesh 

Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

Dimension (mm)	Air Flow (m³/h)	Initial Pressure Drop (Pa)		Final Pressure Drop (Pa)	
		G2	G3	G2	G3
289x594x21	1700	20	-	180	-
594x594x21	3400	20	-	180	-
289x594x46	1700	-	40	-	200
594x594x46	3400	-	40	-	200

- Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Recommended final pressure drop is 180~200Pa.
3. Tolerance of dimension is ± 3mm.
4. Other dimensions are available upon request.

Disposable Panel Filter

M-DP



Applications

-
- Commercial Building
-
- Industrial
-
- General

Product Features

Operating Conditions

Continuous operating temperature; Max. 93°C
Operating relative humidity; ≤100 (%RH)



Frame

Material: Moisture-resistant cardboards
Thickness: 22mm, 44mm, 95mm



Media

Material: Non-woven synthetic fiber with metal wire mesh



Efficiency (EN779:2012)

G4



Disposable



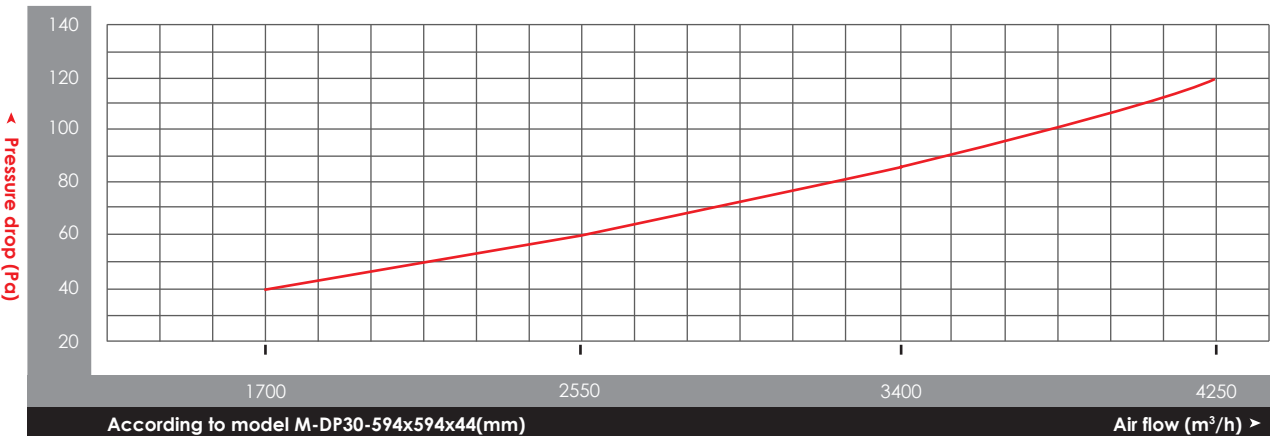
Light Weight



Low Initial Pressure Drop



Graph Of Initial Pressure Drop Versus Air Flow



Technical Data

Performance Code	Performance Grade	1.52m/s		Initial Pressure Drop 2.54m/s		3.18m/s	
		(Inches of Water)	(Pa)	(Inches of Water)	(Pa)	(Inches of Water)	(Pa)
DP30 2" 4"	Excellent	0.12	31	0.29	72	0.39	98
		0.11	29	0.24	61	0.35	88
DP20 2" 4"	Normal	0.14	35	0.30	77	0.45	113
		0.12	33	0.26	65	0.37	93
DP10 2" 4"	Economical	0.15	38	0.32	80	0.47	117
		0.14	35	0.27	68	0.38	96

Remarks: Initial pressure drop difference is ± 10%

Product Specifications

Nominal Dimension	Actual Dimension	Air Flow (m³/h)			M-DP30		M-DP20		M-DP10	
		Face Velocity (m/s)			Pleated Number	Media Area	Pleated Number	Media Area	Pleated Number	Media Area
(inch)	(mm)	1.52	2.54	3.18	(Pleat)	(m²)	(Pleat)	(m²)	(Pleat)	(m²)
WxHxD	WxHxD	1.52	2.54	3.18	(Pleat)	(m²)	(Pleat)	(m²)	(Pleat)	(m²)
12x24x1	289x594x22	1020	1700	-	14	0.37	-	-	-	-
24x24x1	594x594x22	2040	3400	-	28	0.74	-	-	-	-
12x24x2	289x594x44	1020	1700	2125	14	0.73	11	0.58	7	0.37
20x20x2	492x492x44	1445	2380	2980	23	1.01	17	0.74	12	0.52
20x24x2	492x594x44	1700	2800	3570	23	1.21	17	0.89	12	0.63
24x24x2	594x594x44	2040	3400	4250	28	1.47	22	1.15	15	0.79
12x24x4	289x594x95	1020	1700	2125	10	1.13	8	0.91	7	0.79
20x24x4	492x594x95	1700	2800	3570	17	2.01	17	1.91	12	1.35
24x24x4	594x594x95	2040	3400	4250	21	2.37	18	2.03	15	1.70

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Recommended final pressure drop is 250Pa.
3. Tolerance of dimension is -0mm / +3mm.
4. Other dimensions are available upon request.

Washable Panel Filter
M-WASH



Applications



Cleanroom



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 93°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Extruded aluminium / galvanised steel / stainless steel
Thickness: 8mm, 10mm*, 12mm, 21mm, 23mm*, 46mm, 96mm*



Media

Material: Polyester fiber



Efficiency (EN779:2012)

G2, G3, G4



High Dust Holding Capacity



Low Initial Pressure Drop

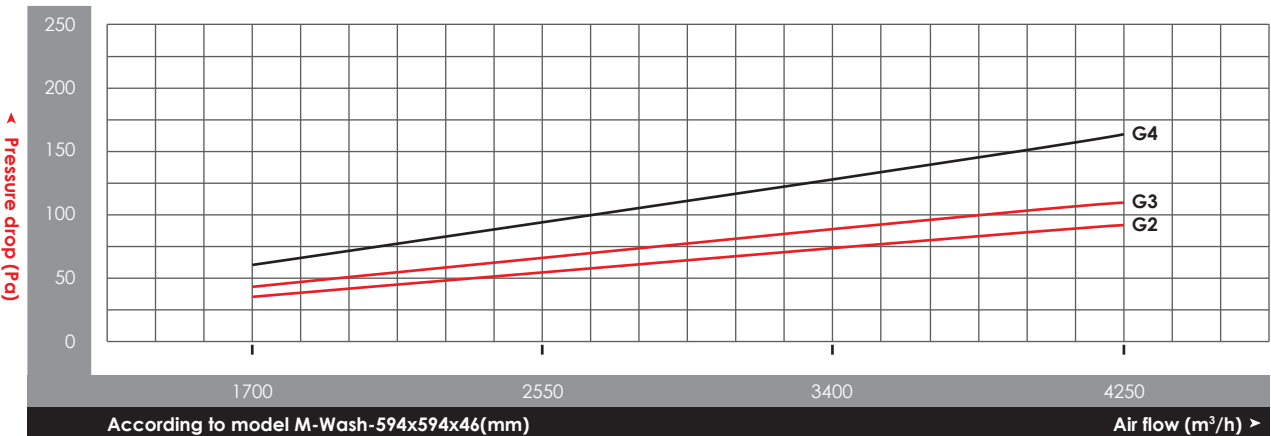


Washable

Washable polyester fiber media (2-3 times)



Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

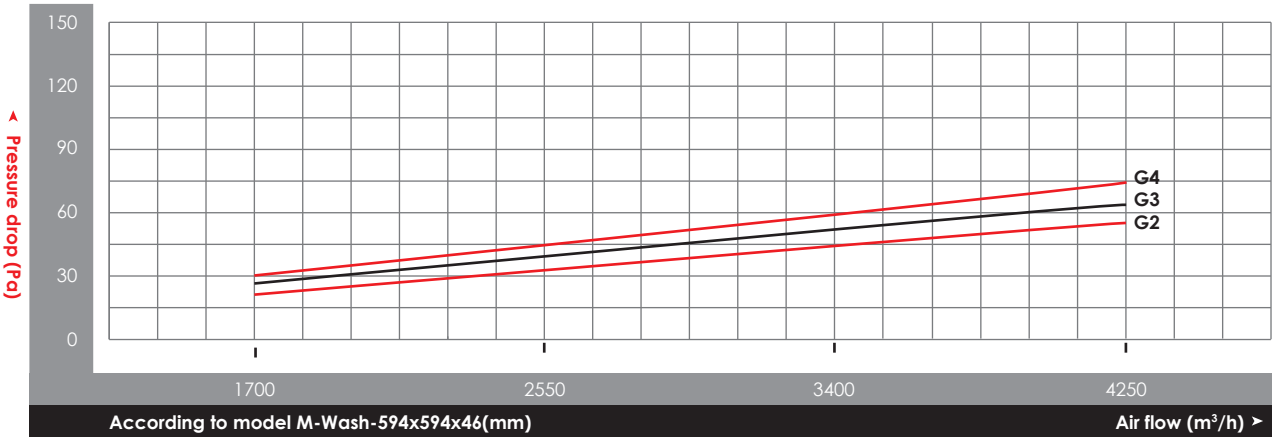
Nominal Dimension	Actual Dimension	Efficiency	Air Flow	Initial Pressure Drop		
(inch)	(mm)	EN779	(m³/h)	(Pa)		
WxHxD	WxHxD			1.78m/s	2.54m/s	3.18m/s
24x12x2	594x289x46	G2	1700	45	70	100
24x20x2	594x492x46		2800	45	70	100
24x24x2	594x594x46		3400	45	70	100
24x12x2	594x289x46	G3	1700	65	95	135
24x20x2	594x492x46		2800	65	95	135
24x24x2	594x594x46		3400	65	95	135
24x12x2	594x289x46	G4	1700	85	130	175
24x20x2	594x492x46		2800	85	130	175
24x24x2	594x594x46		3400	85	130	175

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Recommended final pressure drop is 250Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.

Washable Panel Filter (Wire Mesh)
M-MNF



Graph Of Initial Pressure Drop Versus Air Flow



Applications



Cleanroom



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Aluminium (ABS Angle)
Thickness: 46mm, 96mm



Media

Material: Polyester fiber



Efficiency (EN779:2012)

G3, G4



High Dust Holding Capacity



Low Initial Pressure Drop



Product Specifications

Nominal Dimension (inch)	Actual Dimension (mm)	Efficiency EN779	Air Flow (m³/h)	Initial Pressure Drop (Pa)		
				1.78m/s	2.54m/s	3.18m/s
WxHxD	WxHxD					
12x24x2	290x595x46	G2	1700	25	40	55
20x24x2	490x595x46		2800	25	40	55
24x24x2	595x595x46		3400	25	40	55
12x24x2	290x595x46	G3	1700	35	55	70
20x24x2	490x595x46		2800	35	55	70
24x24x2	595x595x46		3400	35	55	70
12x24x2	290x595x46	G4	1700	40	60	75
20x24x2	490x595x46		2800	40	60	75
24x24x2	595x595x46		3400	40	60	75

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Recommended final pressure drop is 250Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.

Washable Filter Media
M-CUT



Product Specifications

Filter Classification		G2	G3	G4	M5
Units					
Thickness	mm	10	18 - 20	20 - 22	22
Air Permeability	l/m²	4450	4300	1500	900
Final Resistance	Pa	250	250	250	300
Average Arrestance [EN779]	%	75	85	90	95
Dust Holding Capacity	g	155	175	250	290
Colour		White	White	White	White
Washable		Yes	Yes	Yes	Yes

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Applications



Commercial Building



Industrial



General

Product Features

Operating Conditions

Continuous operating temperature; Max. 93°C
Operating relative humidity; ≤100 (%RH)



Efficiency (EN779:2012)

G2, G3, G4



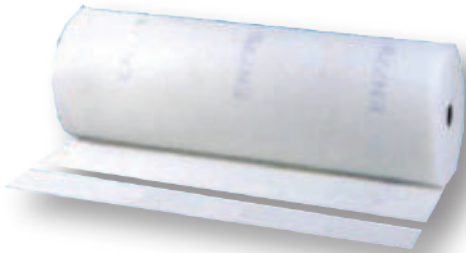
Washable

Washable aluminium mesh



Primary Filter Media

M-Rouch



Product Specifications

Actual Dimension	Thickness	Efficiency	Arrestance	Air Flow	Dust Holding Capacity	Initial Pressure Drop	Final Pressure Drop
(m)	(mm)	(EN779:2012)	(%)	(m³/h)	(g)	(Pa)	(Pa)
WxL							
2 x 20	10	G3	85	5400	500	20	200
2 x 20	15	G3	85	5400	550	25	200
2 x 20	20	G4	92	3400	610	30	250
2 x 20	25	G4	94	3400	670	40	250

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Applications



Automotive



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 100°C
Operating relative humidity: ≤100 (%RH)



Media

Thickness: 10mm, 15mm, 20mm, 25mm



Efficiency (EN779:2012)

G3, G4



Ceiling-Mounted Filter Media

M-Ceiling



Product Specifications

Actual Dimension	Thickness	Efficiency	Arrestance	Air Flow	Dust Holding Capacity	Initial Pressure Drop	Final Pressure Drop
(m)	(mm)	(EN779:2012)	(%)	(m³/h)	(g)	(Pa)	(Pa)
WxL							
2 x 20	25	F5	99	900	600	25	250
2 x 20	25	F5	97	900	500	25	250
2 x 20	20	F5	98	1800	500	35	250
2 x 20	25	F6	99	900	550	25	250

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Applications



Automotive



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 120°C
Operating relative humidity: ≤100 (%RH)



Media

Thickness: 20mm, 25mm

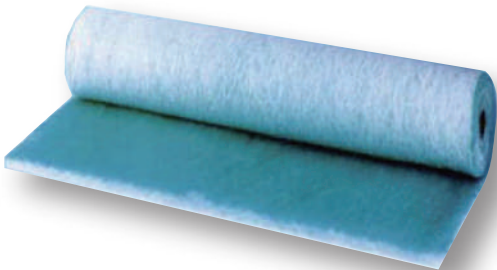


Efficiency (EN779:2012)

F5, F6



Paint Mist Mat
M-Paint



Product Specifications

Actual Dimension	Thickness	Weight	Efficiency	Arrestance	Air Flow	Face Velocity	Capacity at 80Pa and 0.7m/s	Initial Pressure Drop
(m)	(mm)	(g/m ²)	(EN779:2012)	(%)	(m ³ /h)	(m/s)	(g/m ²)	(Pa)
WxL								
1x20, 2x20	70	240~250	G3	93~97	2500~6300	0.7~1.75	3500~4700	7~40
1x20, 2x20	100	350	G4	98~99	2500~6300	0.7~1.75	3900~5050	14~60

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Applications



Automotive



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 150°C
Operating relative humidity: ≤100 (%RH)



Media

Thickness: 70mm, 100mm



Efficiency (EN779:2012)

G3, G4



Filter Media
(High Temperature Resistant)
M-HT



Product Specifications

Actual Dimension	Thickness	Efficiency	Maximum Temperature	Air Flow	Initial Pressure Drop	Final Pressure Drop
(m)	(mm)		(°C)	(m³/h)	(Pa)	(Pa)
WxL						
500x500	20	G4	180~240	1080	40	300
500x500	20	F5	300	1080	70	300

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Applications



Automotive



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 240°C/
300°C
Operating relative humidity: ≤100 (%RH)



Media

Thickness: 20mm



Efficiency

G4, F5



Pocket Filter
M-PACK



Applications

Commercial Building

Industrial

General

Product Features

Operating Conditions

Continuous operating temperature: Max. 60°C
Operating relative humidity: ≤100 (%RH)



Structure/Arrangement

The pockets tightly assembled by using mount ring to form a rigid structure.



Frame

Material: Aluminium / galvanised steel
Thickness: 20mm*, 21mm, 26mm*, 46mm, 47mm*



Media

Material: Melt-blown synthetic fiber
Highlight: Ultrasonic sealed pockets



Efficiency (EN779:2012)

M5, M6, F7, F8, F9



High Dust Holding Capacity

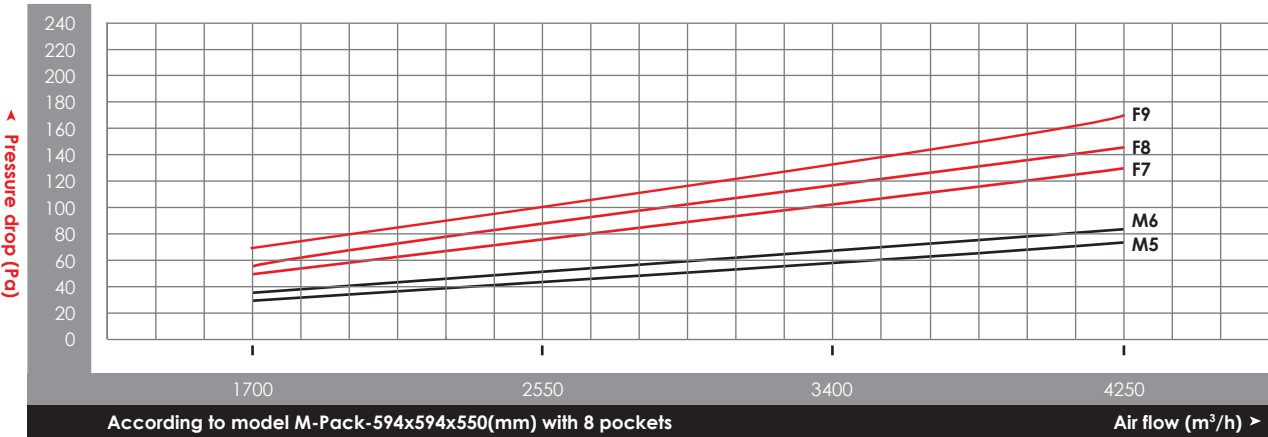


Media Support

Material: Galvanised steel strip



Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

Nominal Dimension	Actual Dimension	Pocket	Media Area	Air Flow	Initial Pressure Drop at 2.54m/s				
(inch)	(mm)		(m²)	(m³/h)	(Pa)				
WxHxD	WxHxD				M5	M6	F7	F8	F9
24x24x25	594x594x635	8	6.60	3400	55	58	90	95	125
20x24x25	492x594x635	6	4.94	2850	55	58	90	95	125
20x20x25	492x492x635	5	3.50	2300	55	58	90	95	125
12x24x25	289x594x635	4	3.30	1700	55	58	90	95	125
24x24x22	594x594x550	8	5.68	3400	60	65	100	115	135
20x24x22	492x594x550	6	4.26	2850	60	65	100	115	135
20x20x22	492x492x550	5	3.02	2300	60	65	100	115	135
12x24x22	289x594x550	4	2.84	1700	60	65	100	115	135
24x24x15	594x594x381	8	3.86	3400	70	75	110	120	145
20x24x15	492x594x381	6	2.90	2850	70	75	110	120	145
20x20x15	492x492x381	5	2.06	2300	70	75	110	120	145
12x24x15	289x594x381	4	1.94	1700	70	75	110	120	145

Remarks: 1. Tolerance of initial pressure drop is ±10%.
2. Recommended final pressure drop is 450Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.
5. Any odd size (etc:492x492) using wire rod structure.

Glass Fibre Pocket Filter

M-PACK-GF



Secondary Filter

Applications



Cleanroom



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature; Max. 80°C
Operating relative humidity; ≤100 (%RH)



Structure/Arrangement

Extended surface multi V-shaped pocket filter



Frame

Material: Extruded aluminium / stainless steel / galvanised steel
Thickness: 20mm*, 21mm*, 26mm*, 47mm*



Media

Material: Fiber glass



Efficiency (EN779:2012)

M6, F7, F8



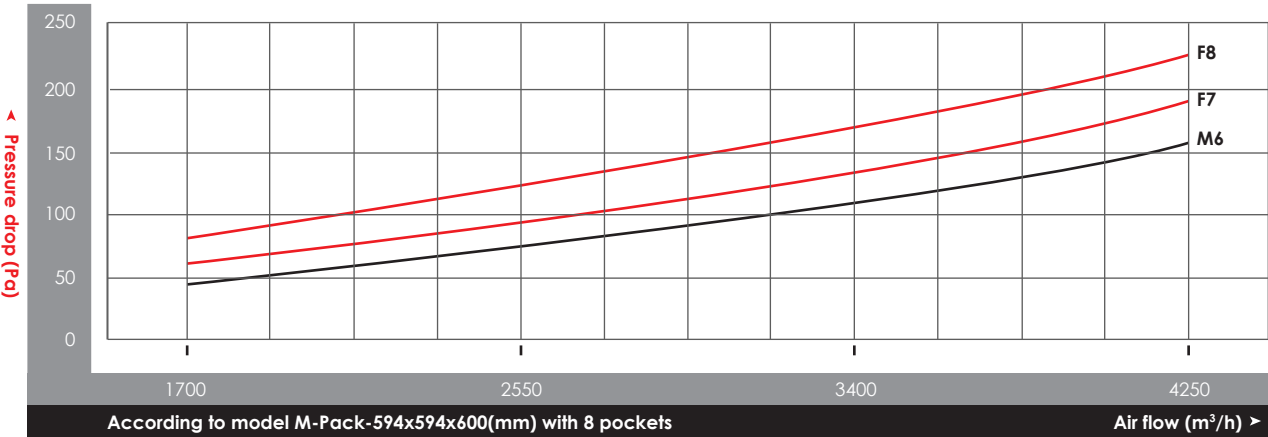
High Dust Holding Capacity



Long Service Life



Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

Actual Dimension	Pocket Number	Media Area	Efficiency	Air Flow	Initial Pressure Drop			
(mm)		(m²)	(EN779:2012)	(m³/h)	(Pa)			
WxHxD					at 1.27m/s	at 1.78m/s	at 2.54m/s	at 3.18m/s
592x592x600	8	6	M6	3400	43	72	110	154
490x592x600	6	4.5		2800	43	72	110	154
287x592x600	4	3.1		1700	43	72	110	154
490x490x600	6	3.8		2380	43	72	110	154
592x592x600	8	6	F7	3400	58	93	138	191
490x592x600	6	4.5		2800	58	93	138	191
287x592x600	4	3.1		1700	58	93	138	191
490x490x600	6	3.8		2380	58	93	138	191
592x592x600	8	6	F8	3400	80	120	169	224
490x592x600	6	4.5		2800	80	120	169	224
287x592x600	4	3.1		1700	80	120	169	224
490x490x600	6	3.8		2380	80	120	169	224

Remarks: 1. Tolerance of initial pressure drop is ±10%.
2. Recommended final pressure drop is 600Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.

High Dust-Holding Pocket Filter

M-HPACK



Applications



Cleanroom



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: -20°C ~ 60°C
High temperature resistant: <100°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Extruded aluminium / Galvanised steel
Thickness: 20mm*, 21mm*, 26mm*, 47mm*



Media

Material: Polyester sythetic fiber



Efficiency (EN779:2012)

G3, G4, M5, M6, F7, F8, F9



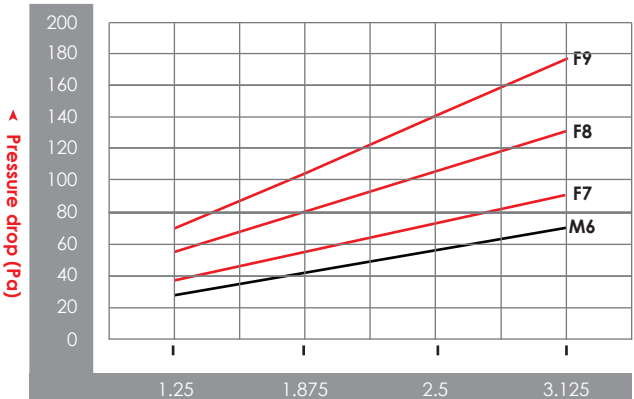
High Dust Holding Capacity



Long Service Life

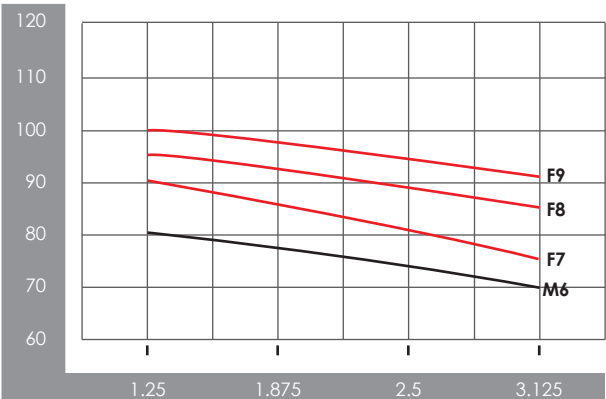


Graph of Initial Pressure Drop versus Velocity



According to model M-HPack-594x594x550(mm) with 7 pockets

Graph of PM2.5 Efficiency versus Velocity



Face velocity (m/s) >

Product Specifications

Nominal Dimension (inch)	Actual Dimension (mm)	Pocket Number	Media Area (m²)	Face Velocity (m/s)	Initial Pressure Drop at 2.54m/s (Pa)						
					G3	G4	M5	M6	F7	F8	F9
WxHxD	WxHxD				G3	G4	M5	M6	F7	F8	F9
24x24x25	592x592x635	8	6.60	2.50	35	40	45	55	70	105	140
20x24x25	490x592x635	6	4.94	2.50	35	40	45	55	70	105	140
12x24x25	287x592x635	4	3.30	2.50	35	40	45	55	70	105	140
24x24x22	592x592x550	8	5.68	2.50	40	45	55	65	80	110	155
20x24x22	490x592x550	6	4.26	2.50	40	45	55	65	80	110	155
12x24x22	287x592x550	4	2.84	2.50	40	45	55	65	80	110	155
24x24x15	592x592x381	8	3.86	2.50	45	50	60	75	85	155	210
20x24x15	490x592x381	6	2.90	2.50	45	50	60	75	85	155	210
12x24x15	287x592x381	4	1.94	2.50	45	50	60	75	85	155	210

Remarks: 1. Tolerance of initial pressure drop is ±10%.
2. Recommended final pressure drop is 450Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.

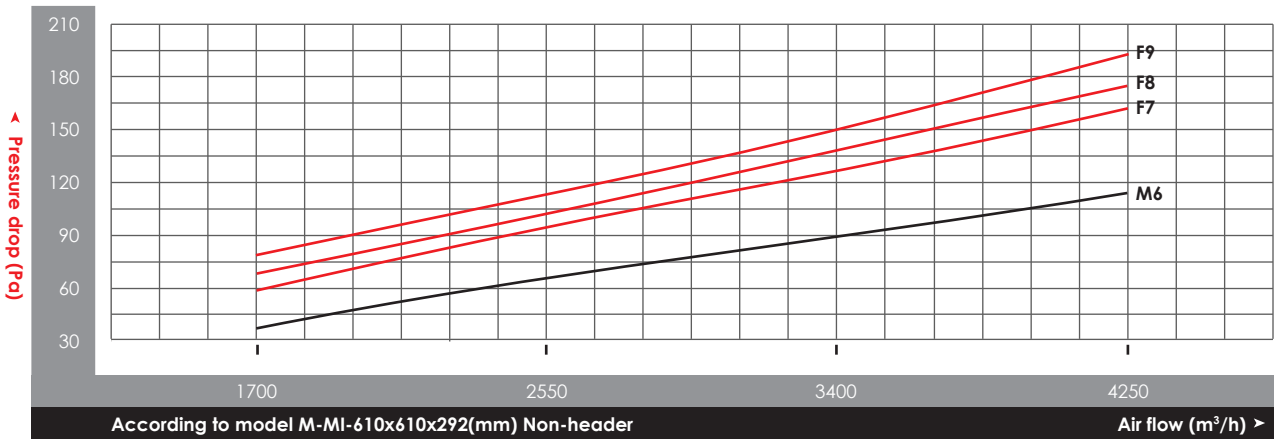
Medium Efficiency Filter with Separator

M-MI



Secondary Filter

Graph Of Initial Pressure Drop Versus Air Flow



Applications



Cleanroom



Industrial



Commercial Building



General

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Galvanized steel / aluminium / stainless steel
Thickness: 80mm, 150mm, 220mm, 292mm
Header: Non-header / single header / double header (thickness: 20mm)



Media

Material: Fiberglass



Efficiency (EN779:2012)

M6, F7, F8, F9



High Dust Holding Capacity



Sealant

Material: Polyurethane glue



Separator

Material: Corrugated aluminium / paper



Product Specifications

Nominal Dimension	Actual Dimension	Air Flow	Face Velocity	Initial Pressure Drop			
(inch)	(mm)	(m³/h)	(m/s)	(Pa)			
WxHxD	WxHxD			M6	F7	F8	F9
12x24x3	305x610x80	400	0.6	90	130	140	150
24x24x3	610x610x80	800	0.6	90	130	140	150
12x24x6	305x610x150	650	1.2	90	130	140	150
24x24x6	610x610x150	1400	1.2	90	130	140	150
12x24x9	305x610x220	860	1.6	90	130	140	150
24x24x9	610x610x220	1860	1.6	90	130	140	150
12x24x12	305x610x292	1400	2.5	90	130	140	150
24x24x12	610x610x292	3000	2.5	90	130	140	150

Remarks: 1. Tolerance of initial pressure drop is ±10%.
2. Recommended final pressure drop is 300Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions (289x594mm / 594x594mm) are available upon request.

Medium Efficiency Filter with Separator
(High Temperature Resistant)

M-MIH



Applications



Automotive



Healthcare & Hospital



General

Product Features

Operating Conditions

Continuous operating temperature: Max. 350°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Galvanised steel / aluminium / stainless steel
Thickness: 80mm*, 150mm*, 220mm*, 292mm*
Header: Non-header / single header / double header (thickness: 20mm)
Faceguard: Galvanised steel / aluminium / stainless steel



Media

Material: Fiberglass



Efficiency (EN779:2012)

M6, F7, F8, F9



High Temperature Resistant

Temperature Resistant : 180°C / 250°C

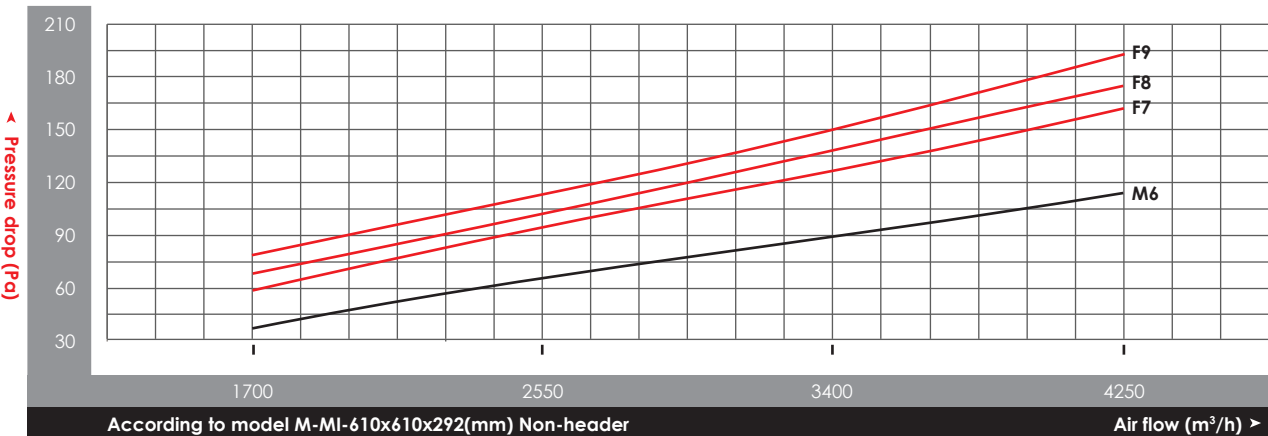


Separator

Material: Corrugated aluminium



Graph Of Initial Pressure Drop Versus Air Flow



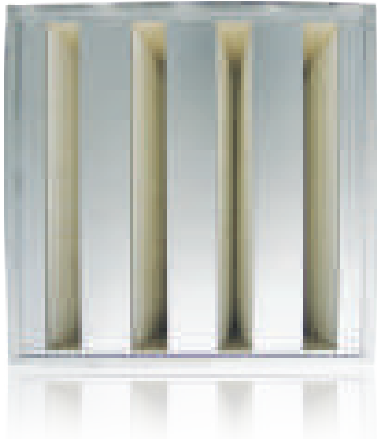
Product Specifications

Nominal Dimension	Actual Dimension	Header	Air Flow	Face Velocity	Initial Pressure Drop			
(inch)	(mm)		(m³/h)	(m/s)	(Pa)			
WxHxD	WxHxD				M6	F7	F8	F9
12x24x3	305x610x80	Non-Header	400	0.6	90	130	140	150
24x24x3	610x610x80	Non-Header	800	0.6	90	130	140	150
12x24x6	305x610x150	Non-Header	850	1.2	90	130	140	150
24x24x6	610x610x150	Non-Header	1700	1.2	90	130	140	150
12x24x9	305x610x220	Non-Header	1080	1.6	90	130	140	150
24x24x9	610x610x220	Non-Header	2160	1.6	90	130	140	150
12x24x12	305x610x292	Non-Header	1700	2.5	90	130	140	150
24x24x12	610x610x292	Non-Header	3400	2.5	90	130	140	150

Remarks: 1. Tolerance of initial pressure drop is ±10%.
2. Recommended final pressure drop is 300Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.

Medium Efficiency V-Shaped
Mini-Pleated Filter

M-MV



Secondary Filter

Applications



Cleanroom



General



Commercial
Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 70°C
Operating relative humidity: ≤100 (%RH)



Structure/Arrangement

Mini-pleated media assembled into V-bank
configuration for greater air flow and longer
service life. (thickness: 292mm)



Frame

Material: Galvanized steel / aluminium / ABS
Header: Non-header / single header (thickness:
20mm)



Media

Material: Fiberglass



Efficiency (EN779:2012)

M6, F7, F8, F9



Sealant

Material: Polyurethane glue

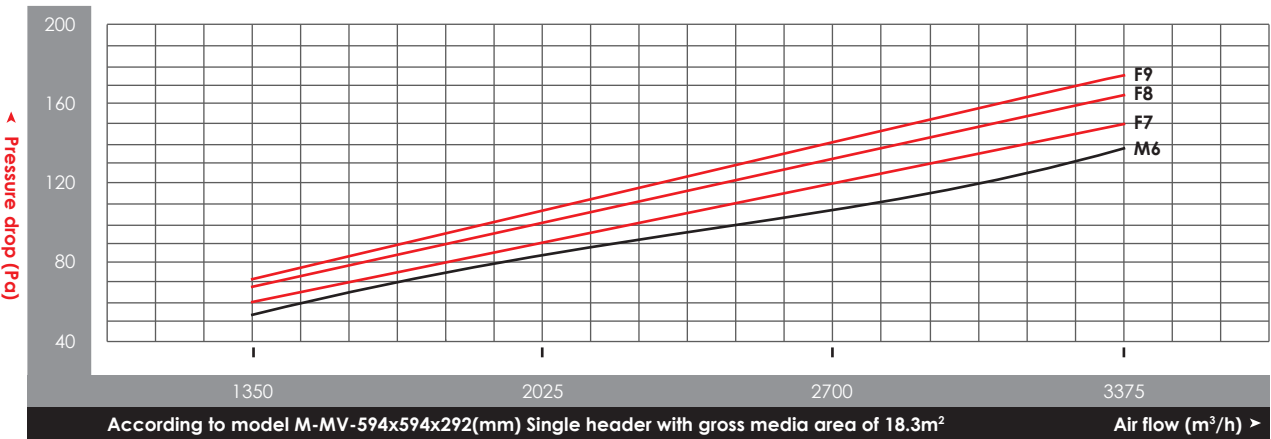


Separator

Material: Hot melt bead



M-MV Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

Nominal Dimension	Actual Dimension	V-shape	Header	Air Flow	Face Velocity	Initial Pressure Drop at 2.50m/s			
(inch)	(mm)	(unit)	(Non/Single)	(m³/h)	(m/s)	(Pa)			
WxHxD	WxHxD					M6	F7	F8	F9
12x24x12	287x592x292	2V	Single Header	1200	2.50	65	70	100	120
24x12x12	592x287x292	4V	Single Header	1200	2.50	65	70	100	120
24x20x12	592x490x292	4V	Single Header	2200	2.50	65	70	100	120
24x24x12	592x592x292	4V	Single Header	2700	2.50	65	70	100	120
12x24x12	305x610x292	2V	Non Header	1400	2.50	65	70	100	120
24x24x12	610x610x292	4V	Non Header	3000	2.50	65	70	100	120

- Remarks:
1. Tolerance of initial pressure drop is ±10%.
 2. Recommended final pressure drop is 2x initial pressure drop.
 3. Tolerance of dimension is ±3mm.
 4. Other dimensions are available upon request.
 5. ABS frame size 592x592x292mm* & 287x592x292mm*.
 6. GI & AL only non-header are available.

Medium Efficiency Mini-Pleated Filter
M-MII



Applications



Cleanroom



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 70°C
Operating relative humidity: ≤100 (%RH)



Structure/Arrangement

Ultra-slim and compact design



Frame

Material: Beverage Board /Galvanized steel / aluminium / stainless steel
Thickness: 50mm, 70mm, 80mm*, 90mm*, 95mm, 100mm*



Media

Material: Fiberglass
Faceguard: Epoxy powder coated steel mesh



Efficiency (EN779:2012)

M6, F7, F8, F9



Sealant

Material: Polyurethane glue

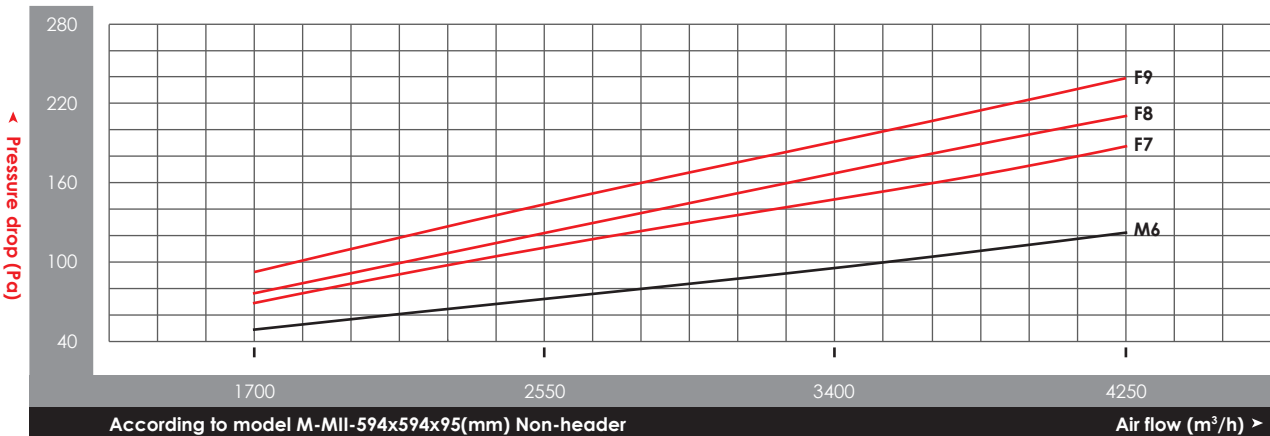


Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Air Flow

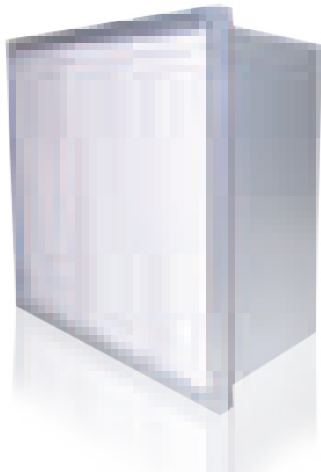


Product Specifications

Nominal Dimension	Actual Dimension	Faceguard	Air Flow	Face Velocity	Initial Pressure Drop				Recommended Final Pressure Drop
(inch)	(mm)		(m³/h)	(m/s)	(Pa)				(Pa)
WxHxD	WxHxD				M6	F7	F8	F9	
24x12x2	610x305x50	Non / Single-Sided	350	0.6	90	110	122	145	300
24x24x2	610x610x50		700	0.6	90	110	122	145	300
24x12x3	610x305x70		600	1.0	90	110	122	145	300
24x12x3	610x610x70		1200	1.0	90	110	122	145	300
24x12x3	610x305x80		700	1.15	90	110	122	145	300
24x12x3	610x610x80		1400	1.15	90	110	122	145	300
12x12x4	289x289x95		600	2.5	100	147	169	190	350
24x12x4	592x289x95		1300	2.5	100	147	169	190	350
20x20x4	492x492x95		1900	2.5	100	147	169	190	350
24x24x4	594x594x95		2800	2.5	100	147	169	190	350
24x12x4	592x287x100		1300	2.5	100	147	169	190	350
24x24x4	592x592x100		2800	2.5	100	147	169	190	350

Remarks: 1. Tolerance of initial pressure drop is ±10%.
2. Tolerance of dimension is ±3mm.
3. Other dimensions are available upon request.

Semi-High Efficiency Air Filter
with Separator
M-SHI



HEPA / ULPA filter

Applications



Cleanroom



General



Commercial Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Galvanised steel / aluminium / stainless steel / plywood
Thickness: 80mm*, 95mm, 150mm, 220mm*, 292mm*
Header: Non-header / single header / double header (thickness: 20mm)



Media

Material: Fiberglass



Efficiency (EN1822:2009)

E10, E11, E12



Sealant

Material: Polyurethane glue

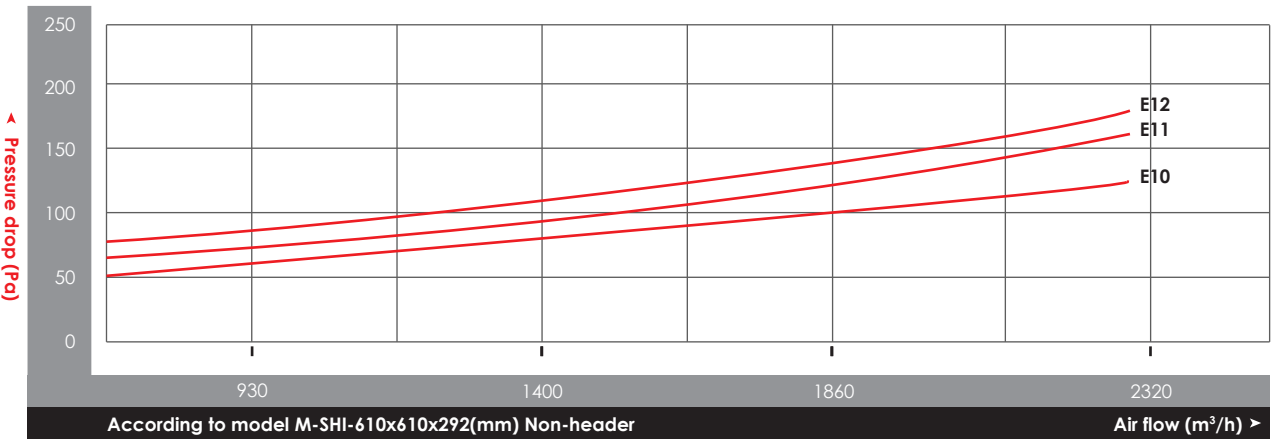


Separator

Material: Corrugated aluminium foil / paper*



Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

Nominal Dimension	Actual Dimension	Face Velocity	Air Flow	Initial Pressure Drop			Recommended Final Pressure Drop
(inch)	(mm)	(m/s)	(m³/h)	(Pa)			(Pa)
WxHxD	WxHxD			E10	E11	E12	
12x24x3	305x610x80	0.36	200	100	130	140	450
24x24x3	610x610x80	0.36	420	100	130	140	450
12x24x6	305x610x150	0.77	420	100	130	140	450
24x24x6	610x610x150	0.77	900	100	130	140	450
12x24x9	305x610x220	1.20	650	100	130	140	450
24x24x9	610x610x220	1.20	1400	100	130	140	450
12x24x12	305x610x292	1.60	860	100	130	140	450
24x24x12	610x610x292	1.60	1860	100	130	140	450

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Semi-High Efficiency Mini-Pleated
Air Filter

M-SHII



Applications

-  Cleanroom  General
-  Commercial Building
-  Industrial

Product Features

- Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)


- Structure/Arrangement

Ultra-slim and compact design
Faceguard: Epoxy powder coated steel mesh


- Frame

Material: Galvanised steel / extruded aluminium / stainless steel
Thickness: 50mm, 70m, 80mm*, 90mm, 95mm*, 100mm*, 110mm


- Media

Material: Fiberglass


- Efficiency (EN1822:2009)

E10, E11, E12


- Sealant

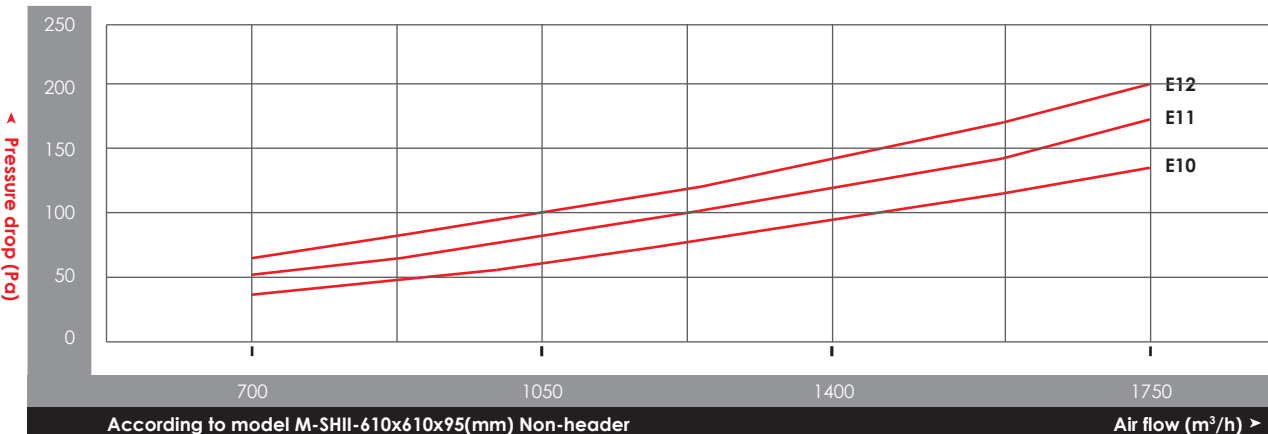
Material: Polyurethane glue


- Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

Nominal Dimension	Actual Dimension	Faceguard	Air Flow	Face Velocity	Initial Pressure Drop		
(inch)	(mm)		(m³/h)	(m/s)	(Pa)		
WxHxD	WxHxD				E10	E11	E12
12x24x2	305x610x50	Double/ Single Faceguard	490	0.85	95	122	145
24x24x2	610x610x50		1030	0.85	95	122	145
12x24x2.8	305x610x70		570	1.00	95	122	145
24x24x2.8	610x610x70		1200	1.00	95	122	145
12x24x3	305x610x80		570	1.00	95	122	145
24x24x3	610x610x80		1200	1.00	95	122	145
12x24x4	305x610x90		660	1.15	95	122	145
24x24x4	610x610x90		1400	1.15	95	122	145
12x24x4	305x610x95		660	1.15	95	122	145
24x24x4	610x610x95		1400	1.15	95	122	145
12x24x4	305x610x100		660	1.15	95	122	145
24x24x4	610x610x100		1400	1.15	95	122	145

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Semi-High Efficiency V-Shaped
Mini-Pleated Air Filter

M-SHV



HEPA / ULPA Filter

Applications

- 

Cleanroom
- 

General
- 

Commercial Building
- 

Industrial

Product Features

- Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)


- Structure/Arrangement

Mini-pleated media assembled into V-bank configuration for greater air flow and longer service life


- Frame

Material: Galvanised steel / aluminium / ABS
Thickness: 292mm
Header: Non-header / single header / double header (thickness: 20mm)


- Media

Material: Fiberglass
Separator: Hot melt bead


- Efficiency (EN1822:2009)

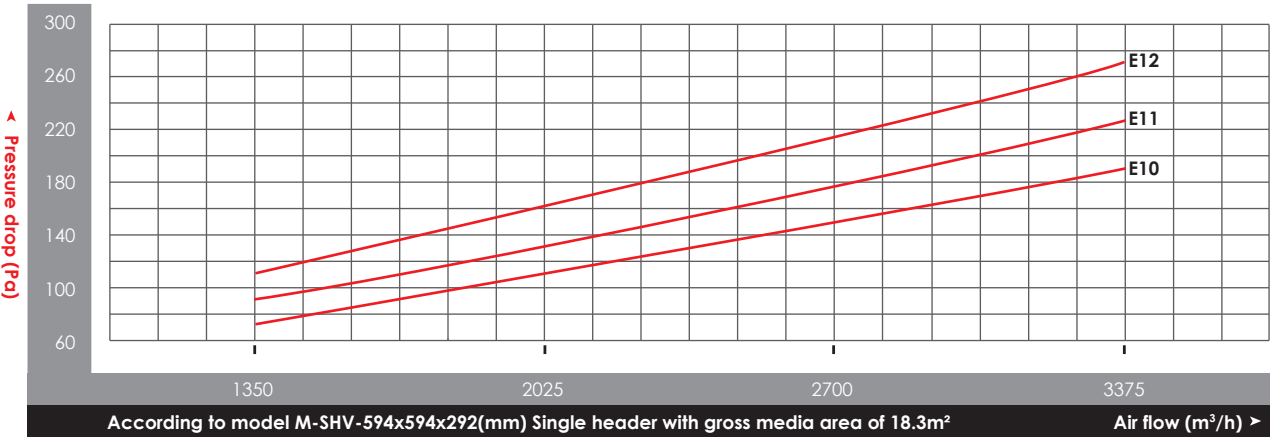
E10, E11, E12


- Sealant

Material: Polyurethane glue



Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

Nominal Dimension (inch)	Actual Dimension (mm)	V-Shape (V)	Header (Non/Single/Double)	Air Flow (m³/h)	Initial Pressure Drop at 2.5 m/s (Pa)			Recommended Final Pressure Drop (Pa)
					E10	E11	E12	
WxHxD	WxHxD							
12x24x12	287x592x292	2V	Single Header	1200	150	180	215	450
24x12x12	592x287x292	4V	Single Header	1200	150	180	215	450
24x20x12	592x490x292	4V		2200	150	180	215	450
24x24x12	592x592x292	4V		2700	150	180	215	450
12x24x12	305x610x292	2V	Non-Header	1400	120	150	185	450
24x24x12	610x610x292	4V		3000	120	150	185	450

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate Air Filter
with Separator
(High Temperature Resistant)

M-HIH



Applications



Automotive



Pharmaceutical & Laboratories



General

Product Features

Operating Conditions

Continuous operating temperature: Max. 350°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Galvanised steel / aluminium / stainless steel
Thickness: 80mm, 150mm, 220mm, 292mm
Header: Non-header / single header / double header (thickness: 20mm)



Media

Material: Fiberglass



Efficiency (EN1822:2009)

H13, H14



High Temperature Resistant



Separator

Material: Corrugated aluminium



Product Specifications (Standard Air Flow)

Nominal Dimension	Actual Dimension	Rated Air Flow	Face Velocity	Rated Initial Pressure Drop	
(inch)	(mm)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			H13	H14
12x24x3	305x610x80	200	0.36	249	280
24x24x3	610x610x80	420	0.36	249	280
12x24x6	305x610x150	420	0.77	249	280
24x24x6	610x610x150	900	0.77	249	280
12x24x9	305x610x220	650	1.20	249	280
24x24x9	610x610x220	1400	1.20	249	280
12x24x12	305x610x292	860	1.60	249	280
12x24x12	610x610x292	1860	1.60	249	280

Product Specifications (High Air Flow)

Nominal Dimension	Actual Dimension	Rated Air Flow	Face Velocity	Rated Initial Pressure Drop	
(inch)	(mm)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			H13	H14
12x24x6	305x610x150	550	1.00	249	280
24x24x6	610x610x150	1170	1.00	249	280
12x24x9	305x610x220	850	1.55	249	280
24x24x9	610x610x220	1820	1.55	249	280
12x24x12	305x610x292	1120	2.00	249	280
24x24x12	610x610x292	2400	2.00	249	280

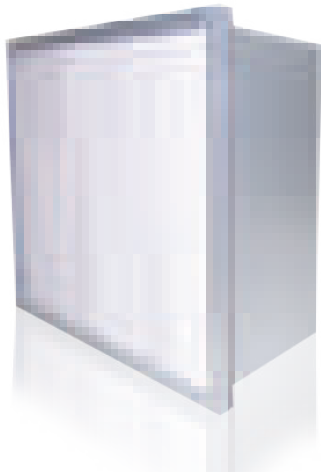
Product Specifications (High Air Flow & Low Pressure Drop)

Nominal Dimension	Actual Dimension	Rated Air Flow	Face Velocity	Rated Initial Pressure Drop	
(inch)	(mm)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			H13	H14
12x24x12	305x610x292	1400	2.50	330	380
24x24x12	610x610x292	3000	2.50	330	380

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate Air Filter
with Separator

M-HI



HEPA / ULPA Filter

Applications



Cleanroom



General



Commercial
Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Galvanised steel / aluminium / stainless
steel / plywood
Thickness: 80mm*, 95mm, 150mm, 220mm*, 292mm
Header: Non-header / single header / double
header (thickness: 20mm)



Media

Material: Fiberglass



Efficiency (EN1822:2009)

H13, H14



Sealant

Material: Polyurethane glue

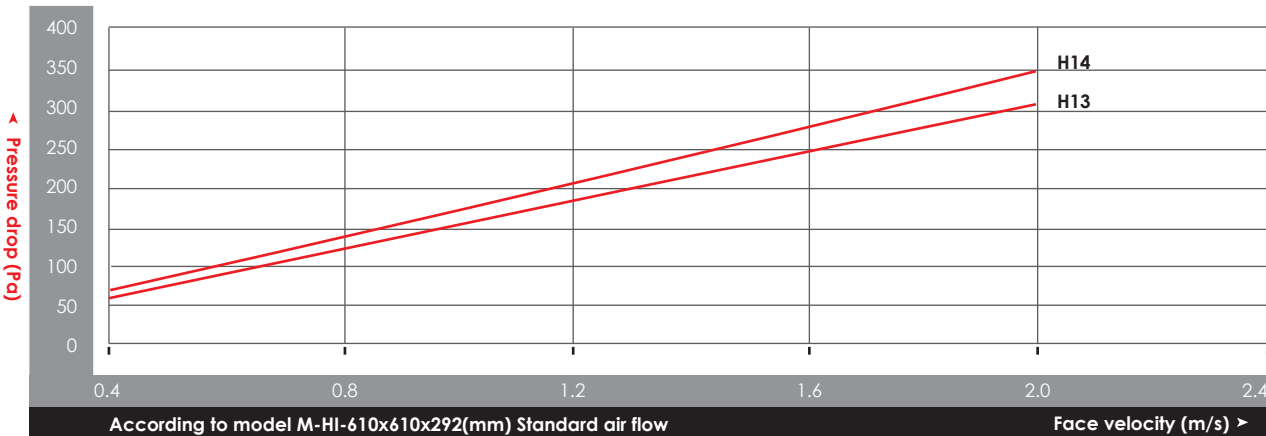


Separator

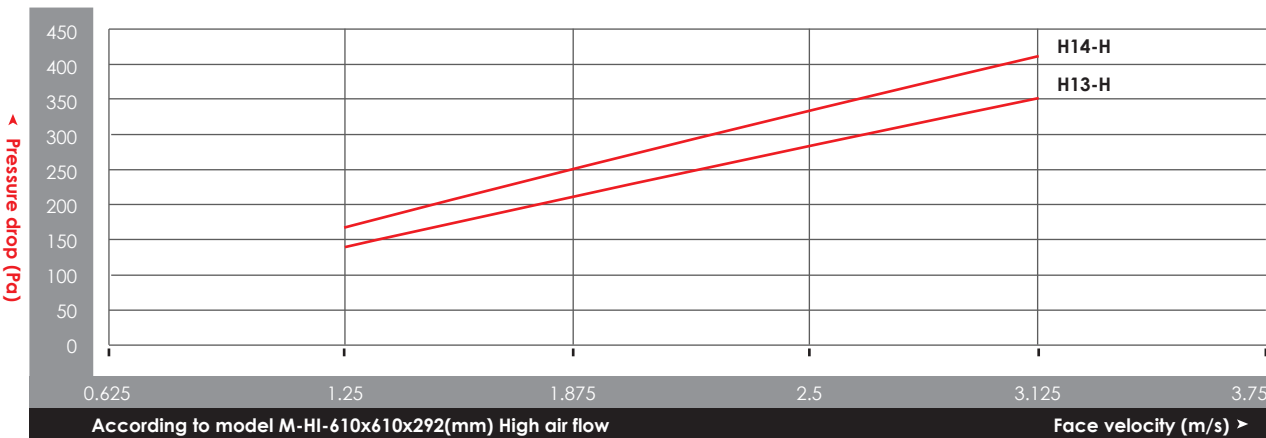
Material: Corrugated aluminium / paper*



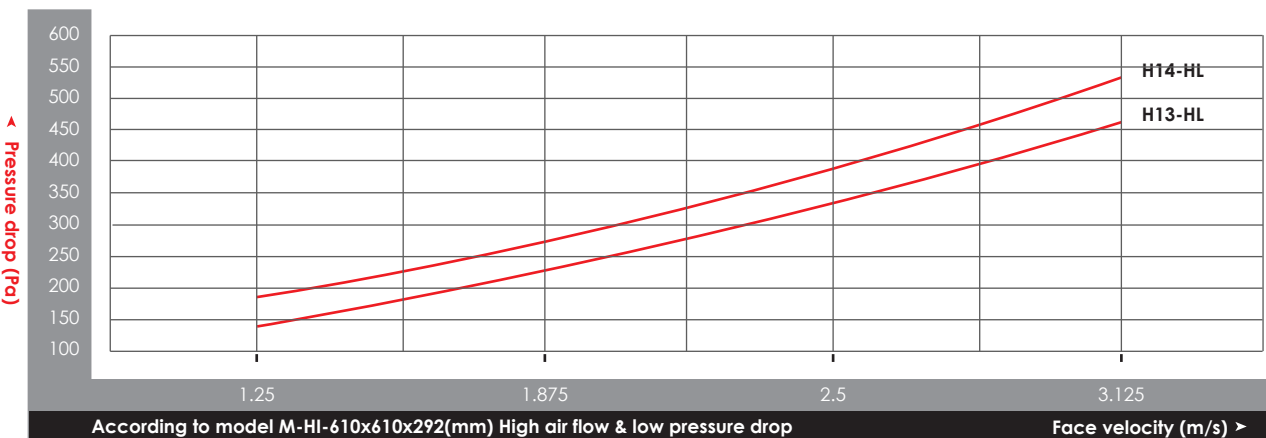
Graph Of Initial Pressure Drop Versus Face Velocity (Standard Air Flow)



Graph Of Initial Pressure Drop Versus Face Velocity (High Air Flow)



Graph Of Initial Pressure Drop Versus Face Velocity (High Air Flow & Low Pressure Drop)





Product Specifications (Standard Air Flow)

Nominal Dimension	Actual Dimension	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			H13	H14
12x24x3	305x610x80	200	0.36	249	280
24x24x3	610x610x80	420	0.36	249	280
12x24x6	305x610x150	420	0.77	249	280
24x24x6	610x610x150	900	0.77	249	280
12x24x9	305x610x220	650	1.20	249	280
24x24x9	610x610x220	1400	1.20	249	280
12x24x12	305x610x292	860	1.60	249	280
24x24x12	610x610x292	1860	1.60	249	280

Product Specifications (High Air Flow)*

Nominal Dimension	Actual Dimension	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			H13	H14
12x24x3	305x610x 80	400	0.60	249	280
24x24x3	610x610x80	800	0.60	249	280
12x24x6	305x610x150	550	1.00	249	280
24x24x6	610x610x150	1170	1.00	249	280
12x24x9	305x610x220	850	1.55	249	280
24x24x9	610x610x220	1820	1.55	249	280
12x24x12	305x610x292	1120	2.00	249	280
24x24x12	610x610x292	2400	2.00	249	280

Product Specifications (High Air Flow & Low Pressure Drop)

Nominal Dimension	Actual Dimension	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			H13	H14
12x24x12	305x610x292	1700	2.50	330	380
24x24x12	610x610x292	3400	2.50	330	380

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate V-Shaped
Mini-Pleated Air Filter

M-HV



HEPA / ULPA Filter

Applications



Cleanroom



General



Commercial
Building



Industrial

Product Features

Operating Conditions

Continuous operating temperature; Max. 80°C
Operating relative humidity; ≤100 (%RH)



Structure/Arrangement

Mini-pleated media assembled into V-bank
configuration for greater air flow and longer
service life



Frame

Material: Galvanised steel / aluminium / ABS
Thickness: 292mm
Header: non-header / single header / double
header (thickness: 20mm)



Media

Material: Fiberglass
Separator: Hot melt bead



Efficiency (EN1822:2009)

H13, H14

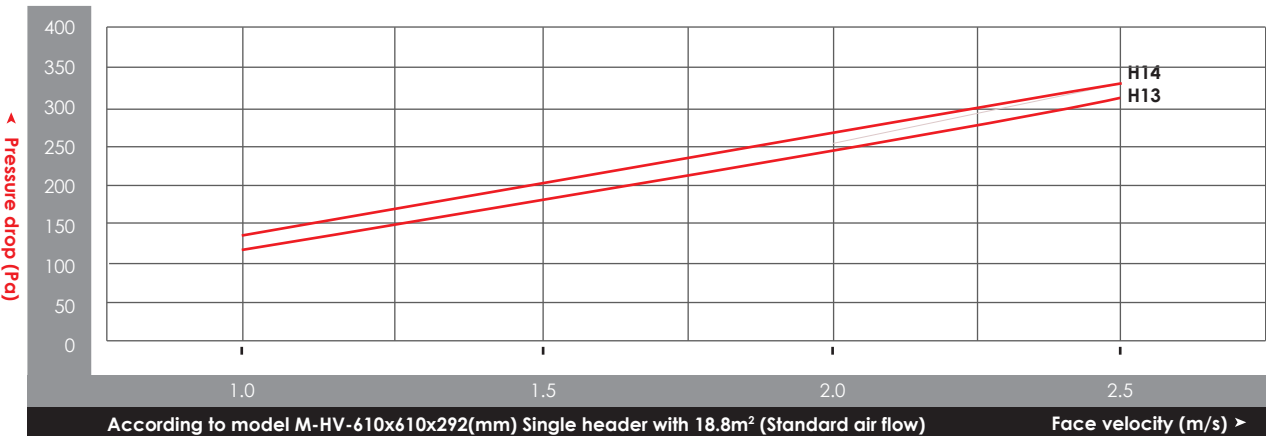


Sealant

Material: Polyurethane glue



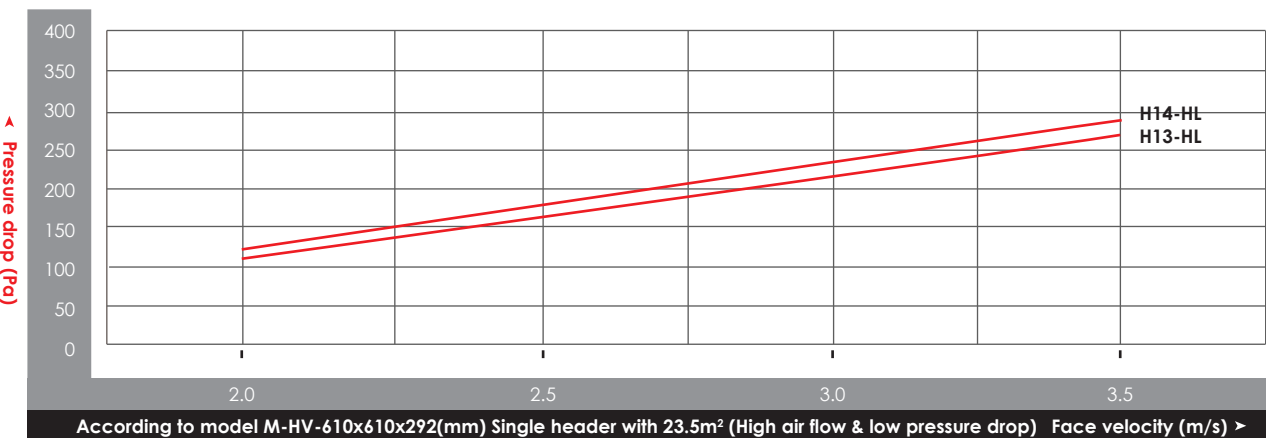
Graph Of Initial Pressure Drop Versus Face Velocity (Standard Air Flow)



Graph Of Initial Pressure Drop Versus Face Velocity (High Air Flow)



Graph Of Initial Pressure Drop Versus Face Velocity (High Air Flow & Low Pressure Drop)





Product Specifications (Standard Air Flow)*

Nominal Dimension	Actual Dimension	V-Shape	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(V)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			2.0	H13	H14
12x24x12	287x592x292	2V	1000		249	270
24x12x12	592x287x292	4V	1000		249	270
24x20x12	592x490x292	4V	1800		249	270
24x24x12	592x592x292	4V	2200		249	270
24x24x12	610x610x292	4V	2400		249	270
12x24x12	305x610x292	2V	1200		249	270

Product Specifications (High Air Flow)*

Nominal Dimension	Actual Dimension	V-Shape	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(V)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			2.5	H13	H14
12x24x12	287x592x292	2V	1200		249	270
24x12x12	592x287x292	4V	1200		249	270
24x20x12	592x490x292	4V	2200		249	270
24x24x12	592x592x292	4V	2700		249	270
24x24x12	610x610x292	4V	3000		249	270
12x24x12	305x610x292	2V	1400		249	270

Product Specifications (High Air Flow & Low Pressure Drop)

Nominal Dimension	Actual Dimension	V-Shape	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(V)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD			3.3	H13	H14
24x12x12	610x305x292	5V	1800		249	270
24x24x12	610x610x292	5V	4000		249	270

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate Mini-Pleated Air Filter

M-HII



HEPA / ULPA filter

Applications



Cleanroom



Semiconductor



General

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Structure/Arrangement

Ultra-slim and compact design



Frame

Material: Anodised aluminium
Thickness: 50mm, 70mm, 90mm, 110mm



Media

Material: Ultrafine fiberglass



Efficiency (EN1822:2009)

H13, H14



Sealant

Material: Polyurethane glue

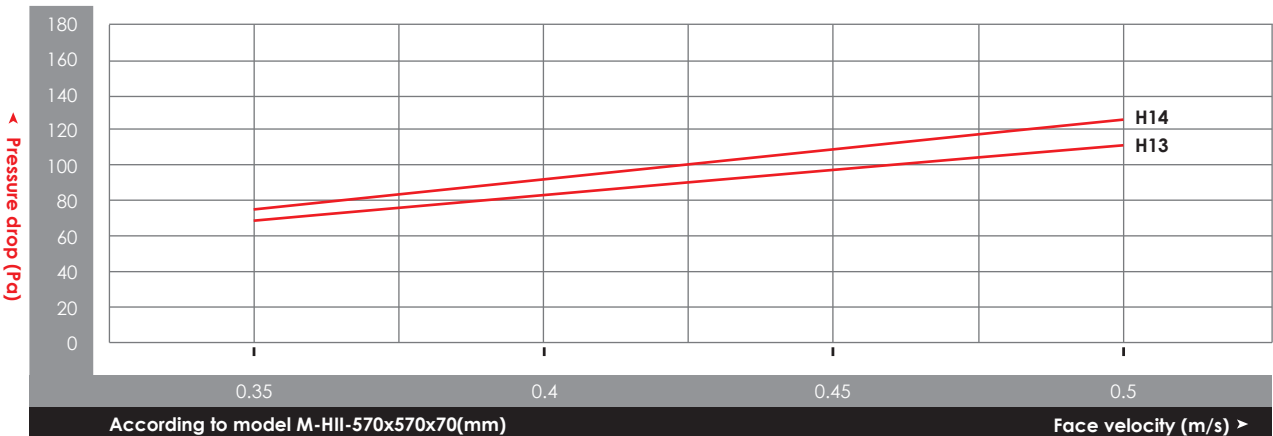


Separator

Material: Hot melt glue



Graph Of Initial Pressure Drop Versus Face Velocity



Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Face Velocity	Initial Pressure Drop	
(foot)	(mm)	(mm)	(m³/h)	(m/s)	(Pa)	
WxHxD	WxHxD				H13	H14
1x2	305x610	50	200	0.35	108	115
2x2	570x570		367	0.35	108	115
2.5x2	762x610		535	0.35	108	115
3x2	915x610		646	0.35	108	115
4x2	1170x570		775	0.35	108	115
4x3	1170x870		1206	0.35	108	115
4x4	1170x1170		1637	0.35	108	115
1x2	305x610	70	258	0.45	100	110
2x2	570x570		472	0.45	100	110
2.5x2	762x610		687	0.45	100	110
3x2	915x610		831	0.45	100	110
4x2	1170x570		1000	0.45	100	110
4x3	1170x870		1550	0.45	100	110
4x4	1170x1170		2100	0.45	100	110
1x2	305x610	90	258	0.45	75	80
2x2	570x570		472	0.45	75	80
2.5x2	762x610		687	0.45	75	80
3x2	915x610		831	0.45	75	80
4x2	1170x570		1000	0.45	75	80
4x3	1170x870		1550	0.45	75	80
4x4	1170x1170		2100	0.45	75	80
1x2	305x610	110	258	0.45	60	65
2x2	570x570		472	0.45	60	65
2.5x2	762x610		687	0.45	60	65
3x2	915x610		831	0.45	60	65
4x2	1170x570		1000	0.45	60	65
4x3	1170x870		1550	0.45	60	65
4x4	1170x1170		2100	0.45	60	65

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate Mini-Pleated
Air Filter (PAO Test)

M-HII-PAO



Applications



Cleanroom



Pharmaceutical
& Laboratories



Commercial
Building



General



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Structure / Arrangement

Ultra-slim and compact design



Frame

Material: Anodised aluminium
Thickness: 50mm, 70mm, 90mm, 110mm



Media

Material: Ultrafine fiberglass
Faceguard: Epoxy powder coated steel mesh



Efficiency (EN1822:2009)

H13, H14



Sealant

Material: Polyurethane glue



Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Face Velocity



According to model M-HII-PAO-610x610x70(mm)

Face velocity (m/s) >

Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Face Velocity	Initial Pressure Drop	
(foot)	(mm)	(mm)	(m³/h)	(m/s)	(Pa)	
WxH	WxH				H13	H14
1x2	305x610	50	200	0.35	115	135
2x2	570x570		367	0.35	115	135
2.5x2	762x610		535	0.35	115	135
3x2	915x610		646	0.35	115	135
4x2	1170x570		775	0.35	115	135
4x3	1170x870		1206	0.35	115	135
4x4	1170x1170	70	1637	0.35	115	135
1x2	305x610		258	0.45	110	120
2x2	570x570		472	0.45	110	120
2.5x2	762x610		687	0.45	110	120
3x2	915x610		831	0.45	110	120
4x2	1170x570		1000	0.45	110	120
4x3	1170x870	90	1550	0.45	110	120
4x4	1170x1170		2100	0.45	110	120
1x2	305x610		258	0.45	80	90
2x2	570x570		472	0.45	80	90
2.5x2	762x610		687	0.45	80	90
3x2	915x610		831	0.45	80	90
4x2	1170x570	110	1000	0.45	80	90
4x3	1170x870		1550	0.45	80	90
4x4	1170x1170		2100	0.45	80	90
1x2	305x610		258	0.45	65	70
2x2	570x570		472	0.45	65	70
2.5x2	762x610		687	0.45	65	70
3x2	915x610		831	0.45	65	70
4x2	1170x570		1000	0.45	65	70
4x3	1170x870		1550	0.45	65	70
4x4	1170x1170		2100	0.45	65	70

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate Mini-Pleated
Air Filter (PAO Gel-Sealed Type)

M-HII-GS-PAO



HEPA / ULPA Filter

Applications



Cleanroom



General



Food Processing
Industry



Pharmaceutical
& Laboratories

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Structure/Arrangement

Ultra slim and compact design
Faceguard: Epoxy powder coated steel mesh



Frame

Material: Anodised aluminium
Thickness: 80mm, 100m (Top Gel); 93mm (Side Gel)



Media

Material: Ultrafine fiberglass



Efficiency (EN1822:2009)

H13, H14



Sealant

Material: Polyurethane glue



Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Face Velocity



Product Specifications - Top Gel

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s	
				(Pa)	(Pa)
(foot)	(mm)	(mm)	(m³/h)	H13	H14
WxH	WxH				
1x2	305x610	80	258	110	120
2x2	570x570	80	472	110	120
2x2	610x610	80	545	110	120
2.5x2	762x610	80	687	110	120
3x2	915x610	80	831	110	120
4x2	1170x570	80	1000	110	120
1x2	305x610	100	258	80	90
2x2	570x570	100	472	80	90
2x2	610x610	100	545	80	90
2.5x2	762x610	100	687	80	90
3x2	915x610	100	831	80	90
4x2	1170x570	100	1000	80	90

Product Specifications - Side Gel

Nominal Dimension	Actual Dimension	External Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s	
					(Pa)	(Pa)
(foot)	(mm)	(mm)	(mm)	(m³/h)	H13	H14
WxH	WxH	(W+40)x(H+40)				
1x2	305x610	345x650	93	258	80	90
2x2	570x570	610x610	93	472	80	90
2x2	610x610	650x650	93	545	80	90
2.5x2	762x610	802x650	93	687	80	90
3x2	915x610	955x650	93	831	80	90
4x2	1170x570	1210x610	93	1000	80	90

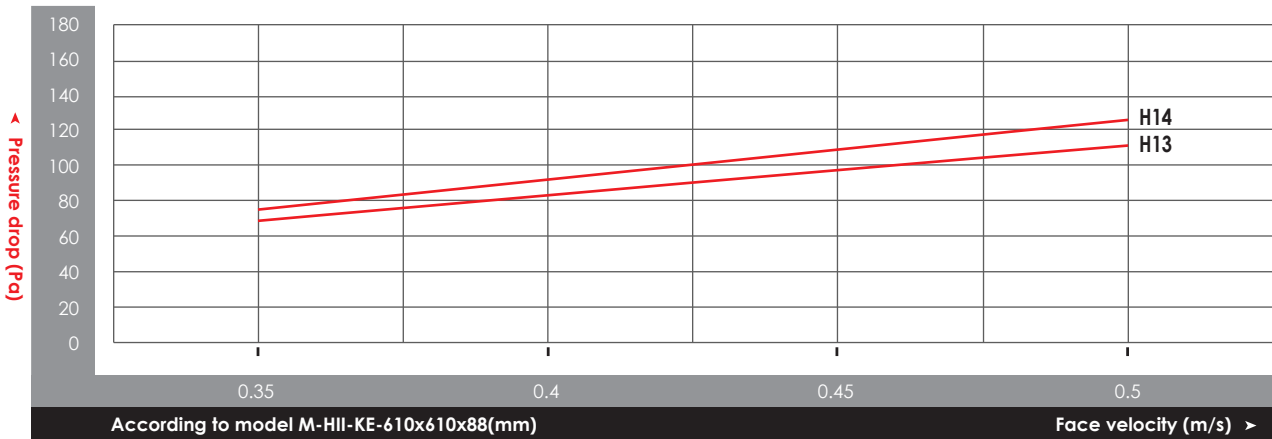
Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate Mini-Pleated
Air Filter (Knife Edge Type)

M-HII-KE



Graph Of Initial Pressure Drop Versus Face Velocity



Applications



Cleanroom



General



Food Processing
Industry



Pharmaceutical
& Laboratories

Product Features

Operating Conditions

Continuous operating temperature; Max. 80°C
Operating relative humidity; ≤100 (%RH)



Structure/Arrangement

Ultra slim and compact design
Faceguard: Epoxy powder coated steel mesh



Frame

Material: Anodised aluminium
Knife edge depth: 18mm



Media

Material: Ultrafine fiberglass



Efficiency (EN1822:2009)

H13, H14



Sealant

Material: Polyurethane glue



Separator

Material: Hot melt bead



Product Specifications - Knife Edge Type

Nominal Dimension (foot)	Actual Dimension (mm)	Thickness (mm)	Air Flow (m³/h)	Initial Pressure Drop at 0.45m/s (Pa)	
				H13	H14
WxH	WxH	88			
1x2	305x610		258	100	110
2x2	570x570		472	100	110
2x2	610x610		545	100	110
2.5x2	762x610		687	100	110
3x2	915x610		831	100	110
4x2	1170x570		1000	100	110
4x3	1170x870		1550	100	110
4x4	1170x1170		2100	100	110

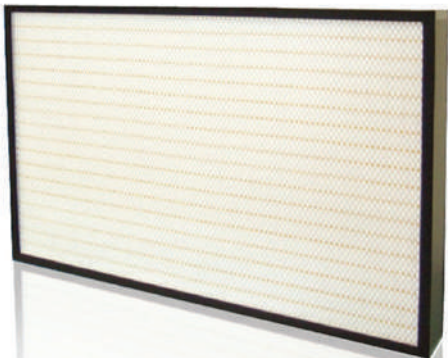
Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

High Efficiency Particulate Mini-Pleated
Air Filter (PTFE)

M-HII-PTFE



HEPA / ULPA Filter



Applications



Cleanroom



General



Semiconductor



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Anodized extruded aluminium profile
Thickness: 30mm, 50mm, 70mm



Media

Material: PTFE with low outgassing



Efficiency (EN1822:2009)

H13, H14



Faceguard

Material: Epoxy powder coated steel, aluminium



Low Initial Pressure Drop

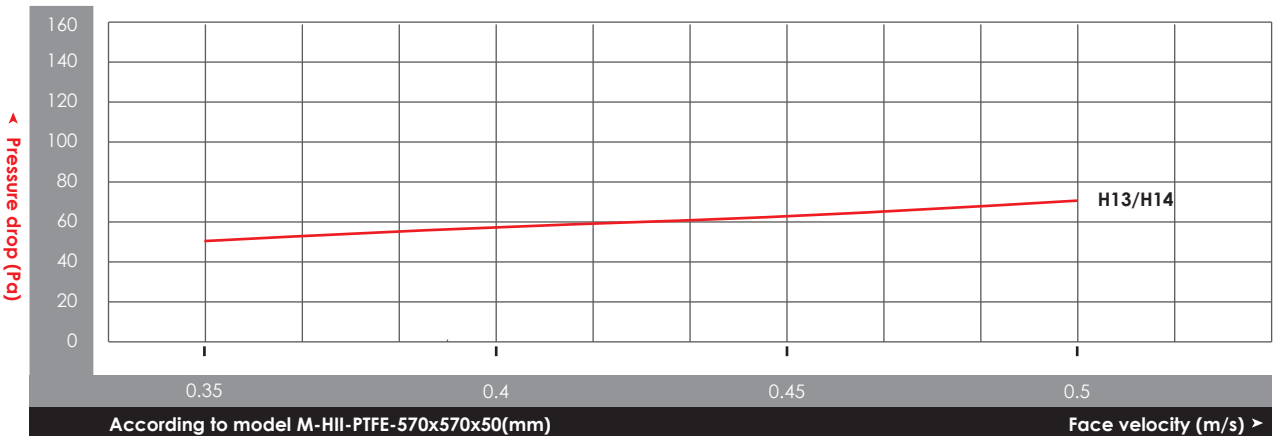


Sealant

Material: Polyurethane glue



Graph Of Initial Pressure Drop Versus Face Velocity



Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Face Velocity	Initial Pressure Drop	
(foot)	(mm)	(mm)	(m/s)	(Pa)	
WxH	WxH			H13	H14
2x2	570x570	30	0.35	74	74
2x4	570x1170		0.35	74	74
4x4	1170x1170		0.35	74	74
2x2	570x570	50	0.45	63	63
2x4	570x1170		0.45	63	63
4x4	1170x1170		0.45	63	63
2x2	570x570	70	0.45	38	38
2x4	570x1170		0.45	38	38
4x4	1170x1170		0.45	38	38

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Ultra-Low Penetration Mini-Pleated
Air Filter

M-UII



Applications



Cleanroom



Semiconductor



General

Product Features

Operating Conditions

Continuous operating temperature; Max. 80°C
Operating relative humidity; ≤100 (%RH)



Structure/Arrangement

Ultra-slim and compact design



Frame

Material: Anodised aluminium
Thickness: 50mm, 70mm, 90mm, 110mm



Media

Material: Ultrafine fiberglass



Efficiency (EN1822:2009)

U15, U16



Sealant

Material: Polyurethane glue

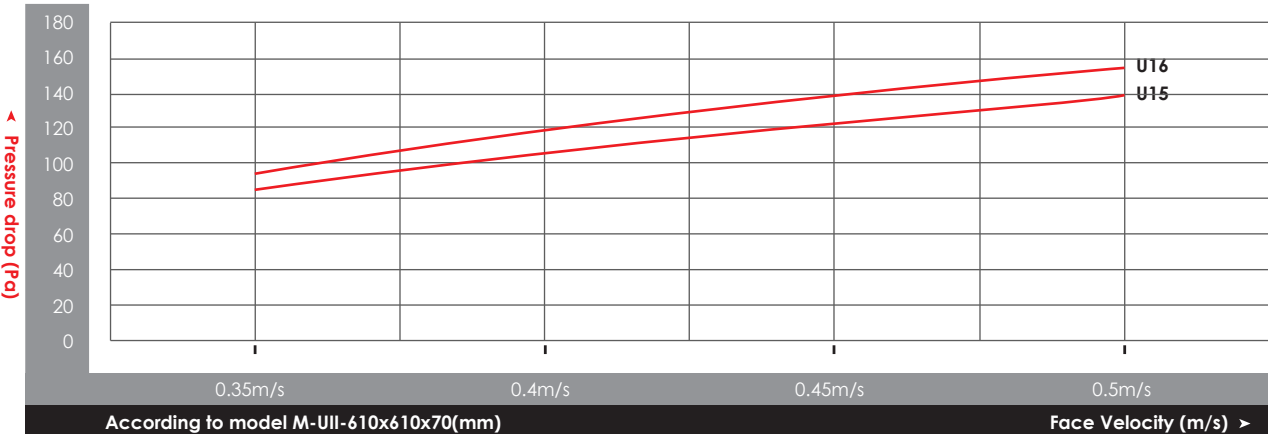


Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Face Velocity



Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Face Velocity	Initial Pressure Drop	
(foot)	(mm)	(mm)	(m³/h)	(m/s)	(Pa)	
WxH	WxH				U15	U16
1x2	305x610	50	200	0.35	135	148
2x2	570x570	50	367	0.35	135	148
2.5x2	762x610	50	535	0.35	135	148
3x2	915x610	50	646	0.35	135	148
4x2	1170x570	50	775	0.35	135	148
4x3	1170x870	50	1206	0.35	135	148
4x4	1170x1170	50	1637	0.35	135	148
1x2	305x610	70	258	0.45	120	140
2x2	570x570	70	472	0.45	120	140
2.5x2	762x610	70	687	0.45	120	140
3x2	915x610	70	831	0.45	120	140
4x2	1170x570	70	1000	0.45	120	140
4x3	1170x870	70	1550	0.45	120	140
4x4	1170x1170	70	2100	0.45	120	140
1x2	305x610	90	258	0.45	90	110
2x2	570x570	90	472	0.45	90	110
2.5x2	762x610	90	687	0.45	90	110
3x2	915x610	90	831	0.45	90	110
4x2	1170x570	90	1000	0.45	90	110
4x3	1170x870	90	1550	0.45	90	110
4x4	1170x1170	90	2100	0.45	90	110
1x2	305x610	110	258	0.45	70	85
2x2	570x570	110	472	0.45	70	85
2.5x2	762x610	110	687	0.45	70	85
3x2	915x610	110	831	0.45	70	85
4x2	1170x570	110	1000	0.45	70	85
4x3	1170x870	110	1550	0.45	70	85
4x4	1170x1170	110	2100	0.45	70	85

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.
4. Efficiency U17 is available upon request.

Ultra-Low Penetration Mini-Pleated
Air Filter (PAO Test)

M-UII-PAO



HEPA / ULPA Filter

Applications



Cleanroom



Pharmaceutical
& Laboratories



Commercial
Building



General



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Structure/Arrangement

Ultra-slim and compact design



Frame

Material: Anodised aluminium
Thickness: 50mm, 70mm, 90mm, 110mm



Media

Material: Ultrafine fiberglass
Faceguard: Epoxy powder coated steel mesh



Efficiency (EN1822:2009)

U15



Sealant

Material: Polyurethane glue

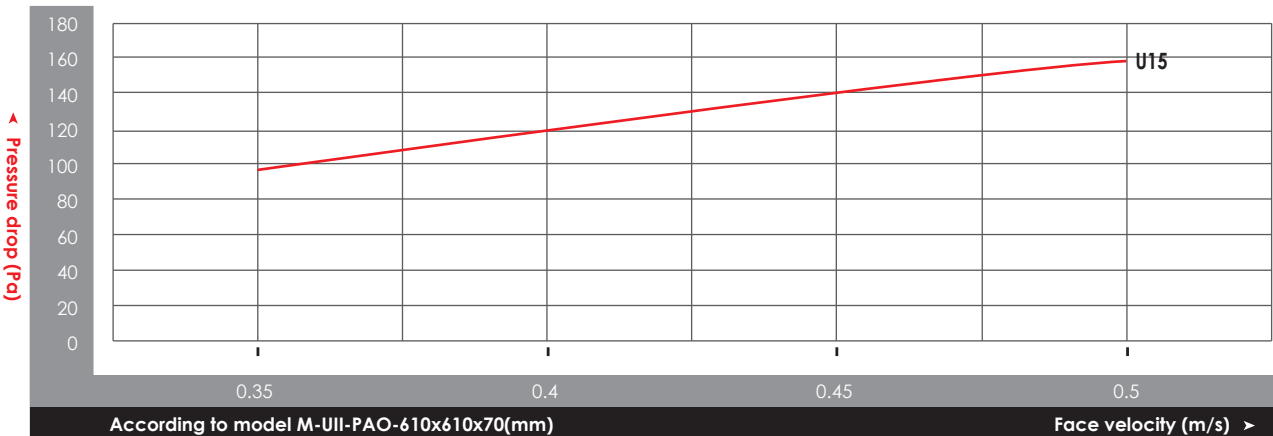


Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Face Velocity



Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Face Velocity	Initial Pressure Drop
(foot)	(mm)	(mm)	(m³/h)	(m/s)	(Pa)
WxH	WxH				U15
1x2	305x610	50	200	0.35	148
2x2	570x570		367	0.35	148
2.5x2	762x610		535	0.35	148
3x2	915x610		646	0.35	148
4x2	1170x570		775	0.35	148
4x3	1170x870		1206	0.35	148
4x4	1170x1170		1637	0.35	148
1x2	305x610	70	258	0.45	140
2x2	570x570		472	0.45	140
2.5x2	726x610		687	0.45	140
3x2	915x610		831	0.45	140
4x2	1170x570		1000	0.45	140
4x3	1170x870		1550	0.45	140
4x4	1170x1170		2100	0.45	140
1x2	305x610	90	258	0.45	110
2x2	570x570		472	0.45	110
2.5x2	762x610		687	0.45	110
3x2	915x610		831	0.45	110
4x2	1170x570		1000	0.45	110
4x3	1170x870		1550	0.45	110
4x4	1170x1170		2100	0.45	110
1x2	305x610	110	258	0.45	85
2x2	570x570		472	0.45	85
2.5x2	726x610		687	0.45	85
3x2	915x610		831	0.45	85
4x2	1170x570		1000	0.45	85
4x3	1170x870		1550	0.45	85
4x4	1170x1170		2100	0.45	85

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.
4. Efficiency U16 and U17 are available upon request.

Ultra-Low Penetration Mini-Pleated
Air Filter (PAO Gel-Sealed Type)

M-UII-GS-PAO



Applications



Cleanroom



General



Food Processing
Industry



Pharmaceutical
& Laboratories

Product Features

Operating Conditions

Continuous operating temperature; Max. 80°C
Operating relative humidity; ≤100 (%RH)



Structure/Arrangement

Ultra slim and compact design
Faceguard: Epoxy powder coated steel mesh



Frame

Material: Anodised aluminium
Thickness: 80mm, 100m (Top Gel); 93mm (Side Gel)



Media

Material: Ultrafine fiberglass



Efficiency (EN1822:2009)

U15



Sealant

Material: Polyurethane glue

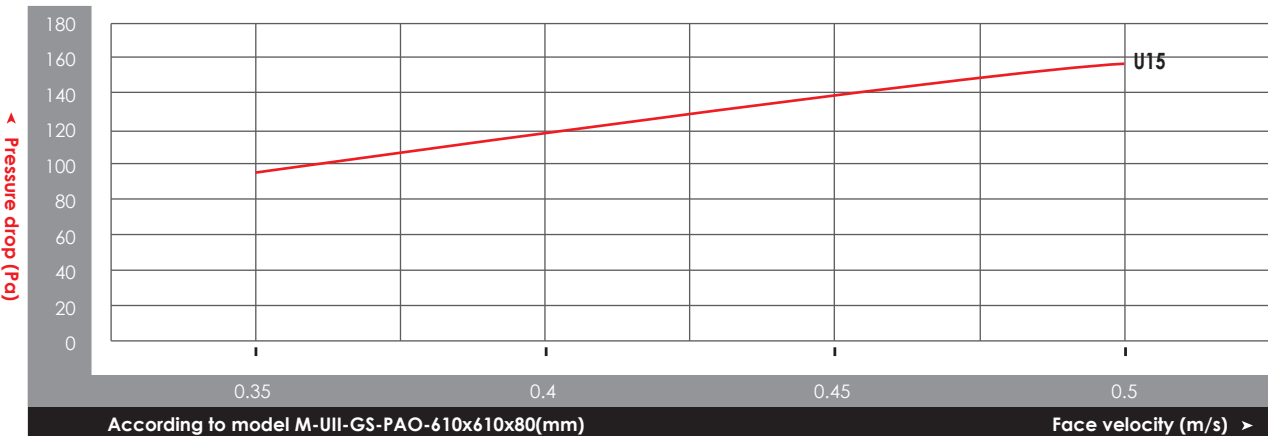


Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Face Velocity



Product Specifications - Top Gel

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s
(foot)	(mm)	(mm)	(m³/h)	(Pa)
WxH	WxH			U15
1x2	305x610	80	258	140
2x2	570x570	80	472	140
2x2	610x610	80	545	140
2.5x2	762x610	80	687	140
3x2	915x610	80	831	140
4x2	1170x570	80	1000	140
1x2	305x610	100	258	110
2x2	570x570	100	472	110
2x2	610x610	100	545	110
2.5x2	762x610	100	687	110
3x2	915x610	100	831	110
4x2	1170x570	100	1000	110

Product Specifications - Side Gel

Nominal Dimension	Actual Dimension	External Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s
(foot)	(mm)	(mm)	(mm)	(m³/h)	(Pa)
WxH	WxH	(W+40)x(H+40)			U15
1x2	305x610	345x650	93	258	110
2x2	570x570	610x610	93	472	110
2x2	610x610	650x650	93	545	110
2.5x2	762x610	802x650	93	687	110
3x2	915x610	955x650	93	831	110
4x2	1170x570	1210x610	93	1000	110

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.
4. Efficiency U16 and U17 are available upon request.

Ultra-Low Penetration Mini-Pleated
Air Filter (Knife Edge Type)

M-UII-KE



HEPA / ULPA Filter

Applications



Cleanroom



General



Food Processing
Industry



Pharmaceutical
& Laboratories

Product Features

Operating Conditions

Continuous operating temperature; Max. 80°C
Operating relative humidity; ≤100 (%RH)



Structure / Arrangement

Ultra slim and compact design
Faceguard: Epoxy powder coated steel mesh



Frame

Material: Anodised aluminium
Thickness: 88mm



Media

Material: Ultrafine fiberglass



Efficiency (EN1822:2009)

U15, U16



Sealant

Material: Polyurethane glue

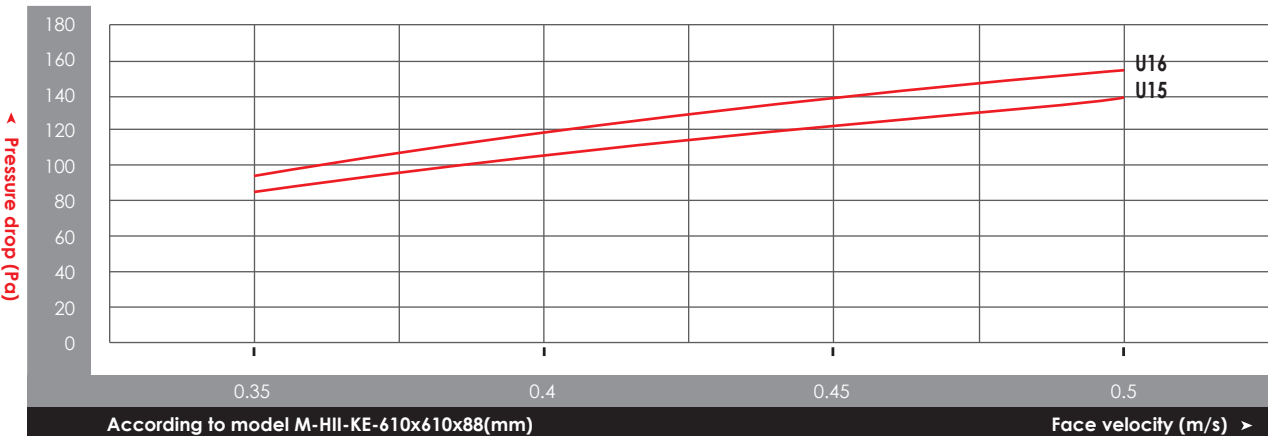


Separator

Material: Hot melt bead



Graph Of Initial Pressure Drop Versus Face Velocity



Product Specifications - Knife Edge Type

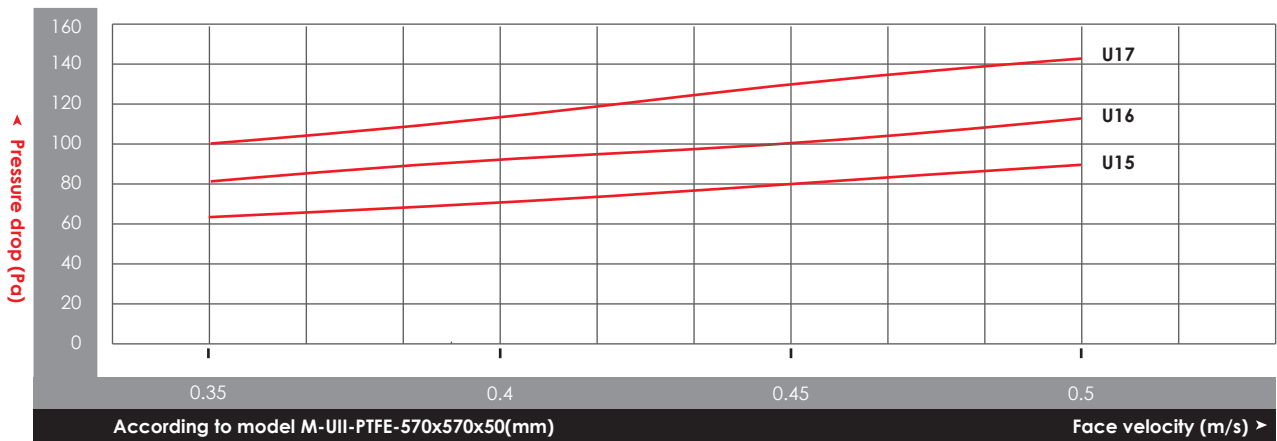
Nominal Dimension (foot)	Actual Dimension (mm)	Thickness (mm)	Air Flow (m³/h)	Initial Pressure Drop at 0.45m/s (Pa)	
				U15	U16
WxH	WxH				
1x2	305x610	88	258	120	140
2x2	570x570	88	472	120	140
2x2	610x610	88	545	120	140
2.5x2	762x610	88	687	120	140
3x2	915x610	88	831	120	140
4x2	1170x570	88	1000	120	140
4X3	1170X870	88	1550	120	140
4x4	1170x1170	88	2100	120	140

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.
4. Efficiency U17 is available upon request.

Ultra-Low Penetration Mini-Pleated
Air Filter (PTFE)
M-UII-PTFE



Graph Of Initial Pressure Drop Versus Air Flow



Applications



Cleanroom



General



Semiconductor



Industrial

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Anodized extruded aluminium profile
Thickness: 30mm, 50mm, 70mm



Media

Material: PTFE with low outgassing



Efficiency (EN1822:2009)

U15, U16, U17



Faceguard

Material: Epoxy powder coated steel / aluminium



Low Initial Pressure Drop



Sealant

Material: Polyurethane glue



Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Face Velocity	Initial Pressure Drop		
(foot)	(mm)	(mm)	(m/s)	(Pa)		
WxH	WxH			U15	U16	U17
2x2	570x570	30	0.35	94	115	152
2x4	570x1170		0.35	94	115	152
4x4	1170x1170		0.35	94	115	152
2x2	570x570	50	0.45	81	99	130
2x4	570x1170		0.45	81	99	130
4x4	1170x1170		0.45	81	99	130
2x2	570x570	70	0.45	49	59	78
2x4	570x1170		0.45	49	59	78
4x4	1170x1170		0.45	49	59	78

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Common Organic Gases And Related Chemical Filters

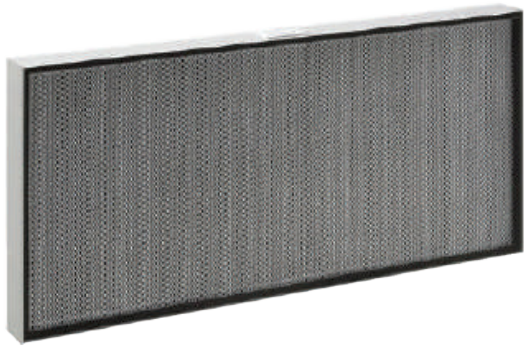
Type	Gas		Source of Origin	Suitable Filter		Analytical Method
	Classification	Compound		AHU/MAU,EX	FFU/RAU	
Organic Gas	Low boiling point (less than 150°C)	Alcohol, Acetone, Toluene and other organic solvents	Cleaning solution	Puro-C, Puro-T, CT	Puro-F	THC meter GC/MS analysis (Absorption tube collection) GC analysis (Absorption tube collection)
	Middle boiling point (150-300°C)	Siloxane (D3~), Phosphoric acid (TEP), and BHT	Silicone sealing material, Non-combustible symptoms of aging prevention material	Puro-C, Puro-T, CT	Puro-F	
	High boiling point (more than 300°C)	Phosphoric acid ester type (DBP, DOP), Phosphate	Plasticizer non-combustible material	Puro-C, Puro-T, CT	Puro-F	

Common Acidic And Basis Gases And Related Chemical Filters

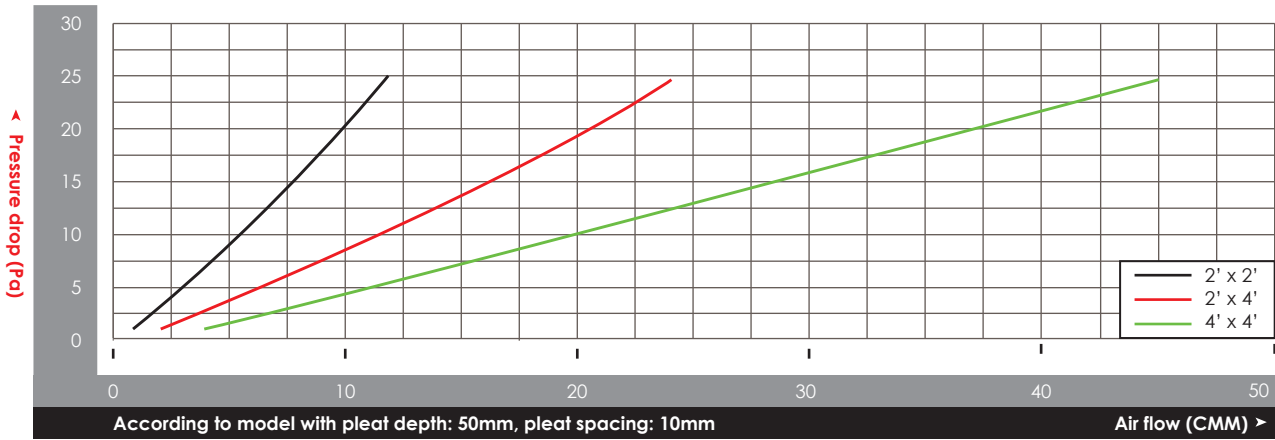
Type	Gas		Source of Origin	Suitable Filter		Analytical Method
	Compound	Chemical Formula		AHU/MAU,EX	RAU	
Acids	Hydrogen fluoride, Fluorideacide, Fluoride ion	HF F ⁻	Cleaning solution	Puro-C, Puro-T, CT	Puro-F	IC analysis (Liquide collection)
	Hydrogen chloride, Chloride ion	HCl Cl ⁻	Cleaning solution, Seawater	Puro-C, Puro-T, CT		
	Nitrogen oxide	NO _x	Combustible Substance, Boiler, Automobile exhaust air	-	-	-
	1-nitrogen oxide	NO		Puro-C, Puro-T, CT	Puro-F	NO _x meter
	Nitrogen dioxide	NO ₂				IC analysis (Liquide collection)
	Nitrous acid ion	NO ₂ ⁻				
	Nitric acid ion	NO ₃ ⁻				
	SOx	SOx	Burning mineral coal and earth containing sulfur, volcano	-	-	-
	Sulfur dioxide	SO ₂		Puro-C, Puro-T, CT	Puro-F	SO _x meter
	Sulfuric acid ion	SO ₄ ²⁻				IC analysis
	Hydrogen sulfide	H ₂ S	Volcano, mineral spring, Decomposition of protein			GC analysis (Air collection)
	Methyl mercaptan	CH ₃ SH	Decomposition of protein			
	Dimethyl sulfide	(CH ₃) ₂ S				
	2-dimethyl sulfide	(CH ₃) ₂ S ₂				
Bases	Ammonia ion	NH ₄ ⁺	Human and animal waste	Puro-C, Puro-T, CT	Puro-F	NH meter IC analysis
	Trimethylamine	(CH ₃) ₃ N	Excrement, manure			IC analysis
Others	Boron	B	Glass fiber	Puro-C	Puro-F	ICP/MS analysis

Chemical Filter

Puro-F



Graph Of Initial Pressure Drop Vs Air Flow



Applications



Cleanroom



Semiconductor

Product Features

Media

Different media formula for different classes of AMC



Easy Maintenance Procedures



Efficiency

> 90%



Pressure Drop

Low and constant



Economical



Operating Face Velocity

≤ 1.0m/s



Product Specifications

Model	PF-PCN	PF-PAA	PF-GAC	PF-PHD
Standard Nominal Dimension* (WxLxH mm)	1200x600x70	1200x600x70	1200x600x70	1200x600x70
Air Flow at 0.35m/s (CMH)	1260	1260	1260	1260
Initial Pressure Drop (Pa)	< 25 at 0.35m/s	< 25 at 0.35m/s	< 25 at 0.35m/s	< 25 at 0.35m/s
Filter Media Area (m²)	8.5	8.5	8.5	8.5
Frame	Galvanized Steel / Aluminium	Galvanized Steel / Aluminium	Galvanized Steel / Aluminium	Galvanized Steel / Aluminium
Faceguard	Anodized Aluminium / Galvanized Steel	Anodized Aluminium / Galvanized Steel	Anodized Aluminium / Galvanized Steel	Anodized Aluminium / Galvanized Steel
Gasket Thickness (mm)	5	5	5	5
Targeted Gaseous	Acidic pollutants (F, Cl, NOx, SOx, H₂S)	Alkaline pollutants (NH₃)	Condensable Gases (VOC)	Dopant (Boron, Phosphorus)

Remarks: 1. Full size available at 1200x1200mm (WxL).
2. The dimensions of Puro-F Series filters can be modified according to the size of FFU.
3. The thickness of Puro-F Series filters can be modified according to the application.
4. Tolerance of dimension is ±2mm.
5. Conversion from CMM to CMH: CMM x 60 minutes.



Product Specifications

Model	PC-PCN	PC-PAA	PC-GAC	PC-PHD
Standard Nominal Dimension* (WxLxH mm)	595x595x295	595x595x295	595x595x295	595x595x295
Air Flow at 2.5m/s (CMH)	3180	3180	3180	3180
Initial Pressure Drop (Pa)	<120 at 2.5m/s	<120 at 2.5m/s	<120 at 2.5m/s	<120 at 2.5m/s
Filter Media Area (m²)	11.2	11.2	11.2	11.2
Frame	Galvanized Steel / Aluminium	Galvanized Steel / Aluminium	Galvanized Steel / Aluminium	Galvanized Steel / Aluminium
Faceguard	Anodized Aluminium / Galvanized Steel	Anodized Aluminium / Galvanized Steel	Anodized Aluminium / Galvanized Steel	Anodized Aluminium / Galvanized Steel
Gasket Thickness (mm)	5	5	5	5
Targeted Gaseous	Acidic pollutants (F, Cl, NOx, SOx, H₂S)	Alkaline pollutants (NH3)	Condensable Gases (VOC)	Dopant (Boron, Phosphorus)

Remarks: 1. Half size available at 295x595mm (WxL).
2. Tolerance of dimension is ±2mm.

Applications

- Cleanroom
- Semiconductor

Product Features

- Media

Different media formula for different classes of AMC


- Easy Maintenance Procedures


- Efficiency

> 90%


- Pressure Drop

Low and constant


- Economical


- Operating Face Velocity

≤ 2.5m/s





Applications



Cleanroom



Semiconductor

Product Features

Media

Different media formula for different classes of AMC



Easy Maintenance Procedures



Efficiency

> 90%



Pressure Drop

Low and constant



Economical



Operating Face Velocity

≤ 2.5m/s



Product Specifications

Model	PV-PCN	PV-PAA	PV-GAC	PV-PHD
Standard Nominal Dimension* (WxLxH mm)	595x595x295	595x595x295	595x595x295	595x595x295
Air Flow at 2.5m/s (CMH)	3180	3180	3180	3180
Initial Pressure Drop (Pa)	< 90 at 2.5m/s	< 90 at 2.5m/s	< 90 at 2.5m/s	< 90 at 2.5m/s
Frame	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
Gasket Thickness (mm)	5	5	5	5
Targeted Gaseous	Acidic pollutants (F, Cl, NOx, SOx, H ₂ S)	Alkaline pollutants (NH ₃)	Condensable Gases (VOC)	Dopant (Boron, Phosphorus)

Remarks: 1. Half size available at 295x595mm (WxL).
2. Tolerance of dimension is ±2mm.

Chemical Filter

Puro-T



Product Specifications

Model	Puro-T Dimension WxHxD (mm)		Air Volume (m³/h)	Pressure (Pa)	Gas Removal Efficiency (%)	SV Value	Absorbent Volume (ft³)
	Frame	Tray (element)					
PT-20W	610x610x630	600x590x45	3360	170/270	90	29,000	3.8
PT-20WH	305x610x630	295x590x45	1680	170/270	90	29,000	1.9
PT-20	610x610x440	600x410x36	3360	120/200	90	53,000	2.1
PT-20H	305x610x440	295x410x36	1680	120/200	90	53,000	1.0
PT-10	610x610x230	600x205x33	1680	80/130	90	60,000	1.0
PT-10H	305x610x230	295x205x33	840	80/130	90	60,000	0.5

Remarks: 1. Dimension available (WxH, mm): 610x610, 305x610, 610x305 and 305x305.
2. Pressure drop is depending on the type of adsorption media.
3. Air volume, targeted gaseous and temperature may affect the removal efficiency.
4. Model "PT-20W" has a longer service life which has about 1.8 times dust holding capacity if compared to model "PT-20".
5. Suitable to remove high concentration gases or using mixed adsorbents.

Applications



Cleanroom



Semiconductor



Commercial Building



Industrial

Product Features

Frame

Material: Galvanized steel / stainless steel



Compatible With Various Type Of Media



Pressure Drop

Constant system



Easy Maintenance Procedures



Efficiency

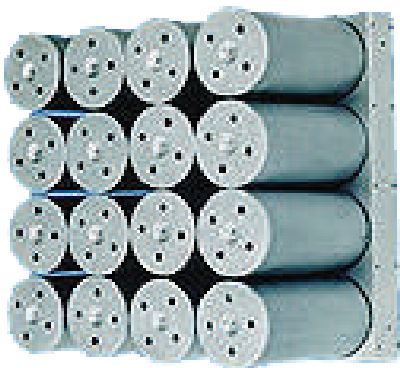
Up to 90%



High Chemical Removal Efficiency



Chemical Filter
CT Series



Applications



Cleanroom



Semiconductor



Commercial Building



Industrial

Product Features

Frame

Material: Galvanized steel / stainless steel



Compatible With Various Type Of Media



Pressure Drop

Constant system



Easy Maintenance Procedures



Efficiency

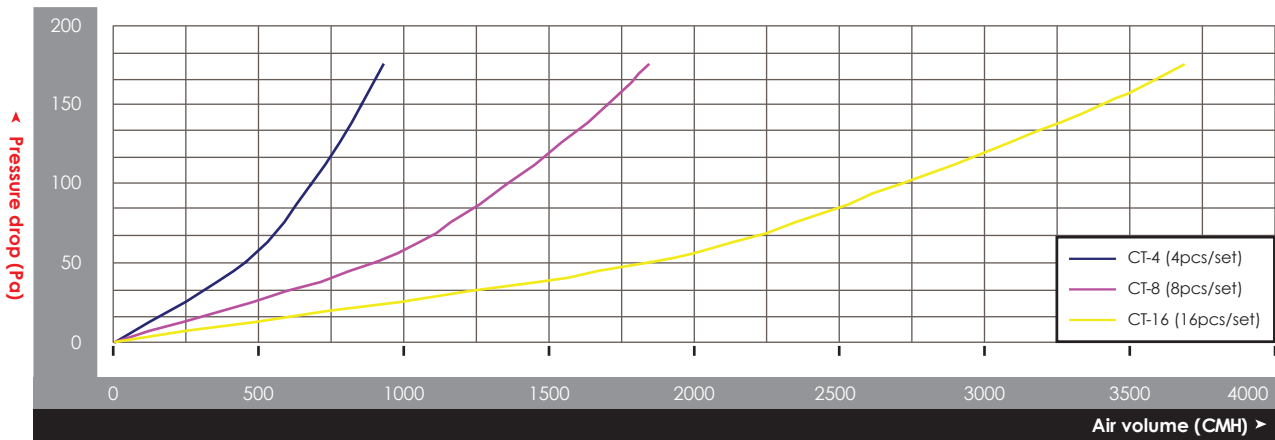
> 90%



High Chemical Removal Efficiency



Graph Of Initial Pressure Drop Vs Air Flow



Product Specifications

Width (W)	Dimension of CT Series (mm)		Depth of Media Bed (mm)	Number of Cartridges
	Height (H)	Depth (D)		
610	610	530	26	16
305	610	530	26	8
305	305	530	26	4
610	610	675	26	16
305	610	675	26	8
305	305	675	26	4

Remarks: 1. Dimension available (WxH, mm): 610x610, 305x610, 610x305 and 305x305.
2. Pressure drop is depending on the type of adsorption media.
3. Air volume, targeted gaseous and temperature may affect the removal efficiency.

Chemical Filter

S-1000



Media specifications

S-1000 Media is designed in spherical porous pellet, which is formed by combining the activated alumina and other binders, suitably impregnated with potassium permanganate. This will provide optimum adsorption, absorption and oxidation of a variety of gaseous contaminants.

Applications



Automotive



Industrial

Product Features

Operating Conditions

Operating temperature: 10~95 %RH
Humidity: -4°F to 125°F (-20°C to 51°C)
Air flow: 42.5~17000CMH
Velocity: 0.30~2.54m/s



Anti-bacterial Or Anti-fungal Growth



Efficiency

Up to 99.5%



Physical Properties

Moisture content: 35% maximum
Hardness: 35%~70%
Abrasion: 4.5% maximum
Bulk density: 50lbs/ft³ (0.8g/cc)±5%
Nominal pellet diameter: 1/8" (3.175 mm)
Potassium permanganate content: 8% min



Targeted Contaminants

Sulphur oxides, nitric oxide, formaldehyde, hydrogen sulphide, lower molecular weight aldehydes and organic acids



Removal Capacity

Hydrogen sulphide: 14% minimum by weight
Sulphur dioxide: 7% minimum by weight
Nitric oxide: 12% minimum by weight
Formaldehyde: 2.5% minimum by weight



Chemical Filter

P-1000



Media specifications

P-1000 Media is an activated carbon media which consist of virgin grade, activated, non-impregnated carbon. P-1000 Media will remove contaminant gases by means of adsorption. Gases will adhere to the surface of the media pellet during the adsorptive process.

Applications



Fuel Additive



Industrial

Product Features

Operating Conditions

Temperature: 10-95% rh
Humidity: -4°F to 125°F (-20°C to 51°C)
Air flow: from less than 25CFM to 100000 CFM
Velocity: 0.30m/s to 2.54m/s



Non-toxic



Efficiency

99.5%



Physical Properties

Moisture content: 2%
Hardness number: 95 min
Apparent density/ bulk dense pack: 30lbs/ft³
(0.48g/cc) ±5%
Ctc: 60% min
Ash: 12% min
Nominal pellet diameter: 4mm



Targeted Contaminants

Hydrocarbons, chlorine, nitric dioxide,
volatile organic compounds



Removal Capacity

Chlorine: 10% minimum by weight
Nitrogen dioxide: 6.6% min. by weight
Toluene: 20% min. by weight
Trichloroethane: 20% min. by weight



Chemical Filter

M-1000



Media specifications

M-1000 Media is a high quality grade of activated wooden charcoal, with a diameter of 4mm. The pore structures of the activated wooden charcoal can be used to target acidic gases, e.g. hydrogen sulphide, chlorine gas, sulphur dioxide and other acidic pollutants. This media can also be used to remove odour.

Chemical Filter

Applications

-  Paper Pulping
-  Sewage Treatment Plant
-  Chemical Plant

Product Features

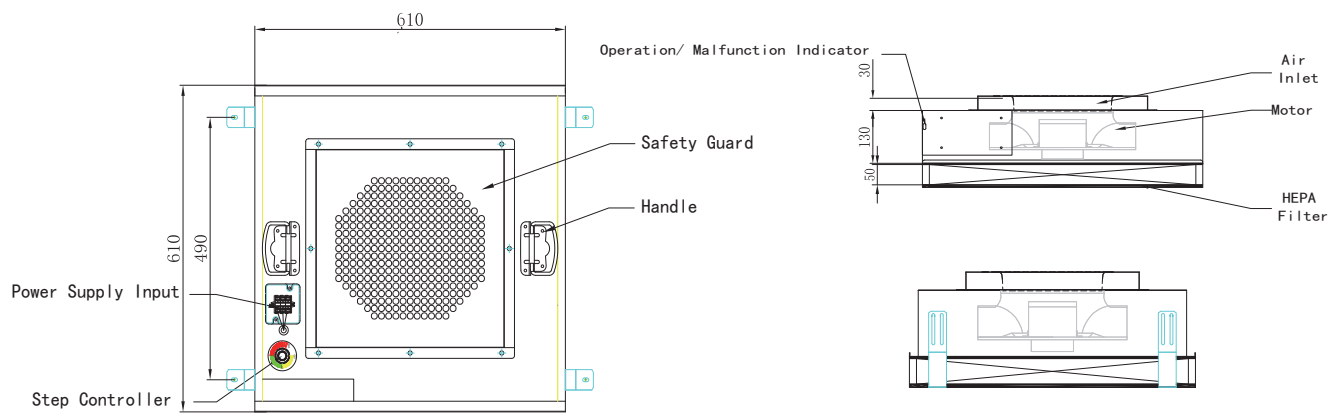
- Operating Conditions** 
 - Temperature: 10-95% rh
 - Humidity: -4°F to 125°F (-20°C to 51°C)
 - Air flow: from less than 25CFM to 100000CFM
 - Velocity: 0.30m/s to 2.54m/s
- Non-toxic** 
- Efficiency** 
 - 99.5%
- Physical Properties** 
 - Moisture content: 35% maximum
 - Crush strength: 35%-70%
 - Abrasion: 4.5% maximum
 - Bulk density: 50lbs/ft³ (0.8g/cc)±5%
 - Nominal pellet diameter: 1/8" (3.175mm)
- Targeted Contaminants** 
 - Sulfur dioxide, hydrogen sulfide
- Removal Capacity** 
 - Hydrogen sulfide: 20% minimum by weight
 - Sulfur dioxide: 10% minimum by weight

Equipment Fan Filter Unit

EFU



Structure Drawing



Applications

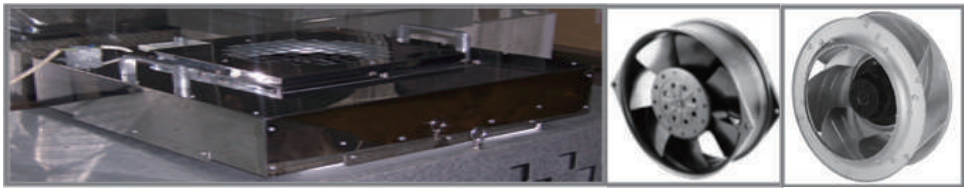
- Semiconductor
- Cleanroom
- Pharmaceutical & Laboratories
- Food Processing Industry

Product Features

- Casing Construction**
Material: Galvalume / stainless steel / aluminium
- Optional Accessories**
Air inlet pre-filter, downstream diffuser, pressure gauge, pressure guage port for filter pressure drop monitoring, cleanliness monitoring port, DOP testing port, air inlet collar, five-speed controller, humidity monitoring port, remote control, European plug and others
- Uniform Air Flow Distribution**
- Low Energy Consumption**
High efficiency blower
- Low Noise Level**
High total static pressure
- Speed Controller**
Type: None / manual speed controller / small scale centralized speed controller

Motor Selection

- AC Motor
- DC Motor
- Centrifugal fan
- Axial fan
- Thin size
- High air flow model



EFU-EC Technical Data (c/w HEPA H14 50T)

Power Input: 1 ϕ 200V 50Hz

Model	EF-22EC	EF-23EC	EF-24EC	EF-44EC	EF-45EC	
EFU Size W*L*H (mm)	610 x 610 x 180	620 x 730 x 180	1167 x 572 x 180 1220 x 610 x 180	1220 x 1220 x 180 1167 x 1167 x 180	1000 x 1500 x 180	1300 x 1500 x 180
Filter Size W*L*H (mm)	610 x 610 x 50	620 x 730 x 50	1167 x 572 x 50 1220 x 610 x 50	1220 x 1220 x 50 1167 x 1167 x 50	1000 x 1500 x 50	1300 x 1500 x 50
Airflow (CMM)	8	9.9	16.6	31	34	44.8
Face Velocity (m/s)	0.4	0.4	0.4	0.4	0.4	0.4
Power (W)	47	60	78	182	185	220
Weight (Kg)	17.5	19.5	23.5	36.5	37	42.5
Noise Level db(A)	56	56.5	57	58	58	59

EFU-EC Technical Data (c/w HEPA H14 30T)

Power Input: 1 ϕ 200V 50Hz

Model	EF-22EC	EF-23EC	EF-24EC	EF-44EC	EF-45EC	
EFU Size W*L*H (mm)	610 x 610 x 160	620 x 730 x 160	1167 x 572 x 160 1220 x 610 x 160	1220 x 1220 x 160 1167 x 1167 x 160	1000 x 1500 x 160	1300 x 1500 x 160
Filter Size W*L*H (mm)	610 x 610 x 30	620 x 730 x 30	1167 x 572 x 30 1220 x 610 x 30	1220 x 1220 x 30 1167 x 1167 x 30	1000 x 1500 x 30	1300 x 1500 x 30
Airflow (CMM)	8	9.9	16.6	31	34	44.8
Face Velocity (m/s)	0.4	0.4	0.4	0.4	0.4	0.4
Power (W)	24	45	47	119	150	170
Weight (Kg)	16.5	18	22	33.5	34	37.7
Noise Level db(A)	55	55.5	56	57	57	58

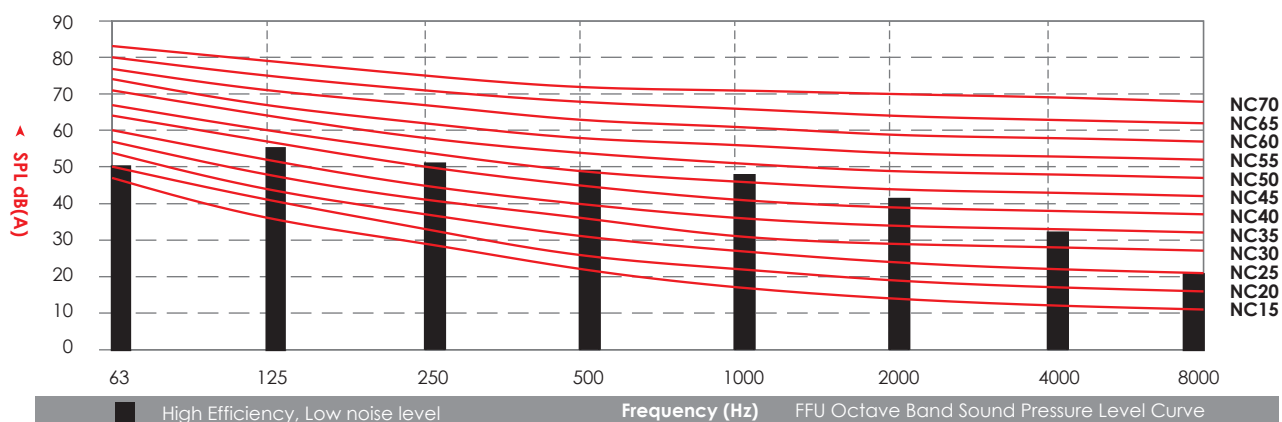
Remarks: 1. Above data for noise level and weight is base on Aluminum casing.
2. Any requirement for power supply need to request.
3. Different efficiency and casing material need to request

Fan Filter Unit

FFU



FFU Sound Pressure Level Curve (Octave Band)



Applications



Semiconductor



Cleanroom



Pharmaceutical
& Laboratories



Food Processing
Industry

Product Features

Casing Construction

Material: Galvalume / stainless steel / aluminium



Optional Accessories

Air inlet pre-filter, downstream diffuser, pressure gauge, pressure gauge port for filter pressure drop monitoring, cleanliness monitoring port, DOP testing port, air inlet collar, five-speed controller, humidity monitoring port, remote control, European plug and others



Uniform Air Flow Distribution



Low Energy Consumption

High efficiency blower



Low Noise Level

High total static pressure



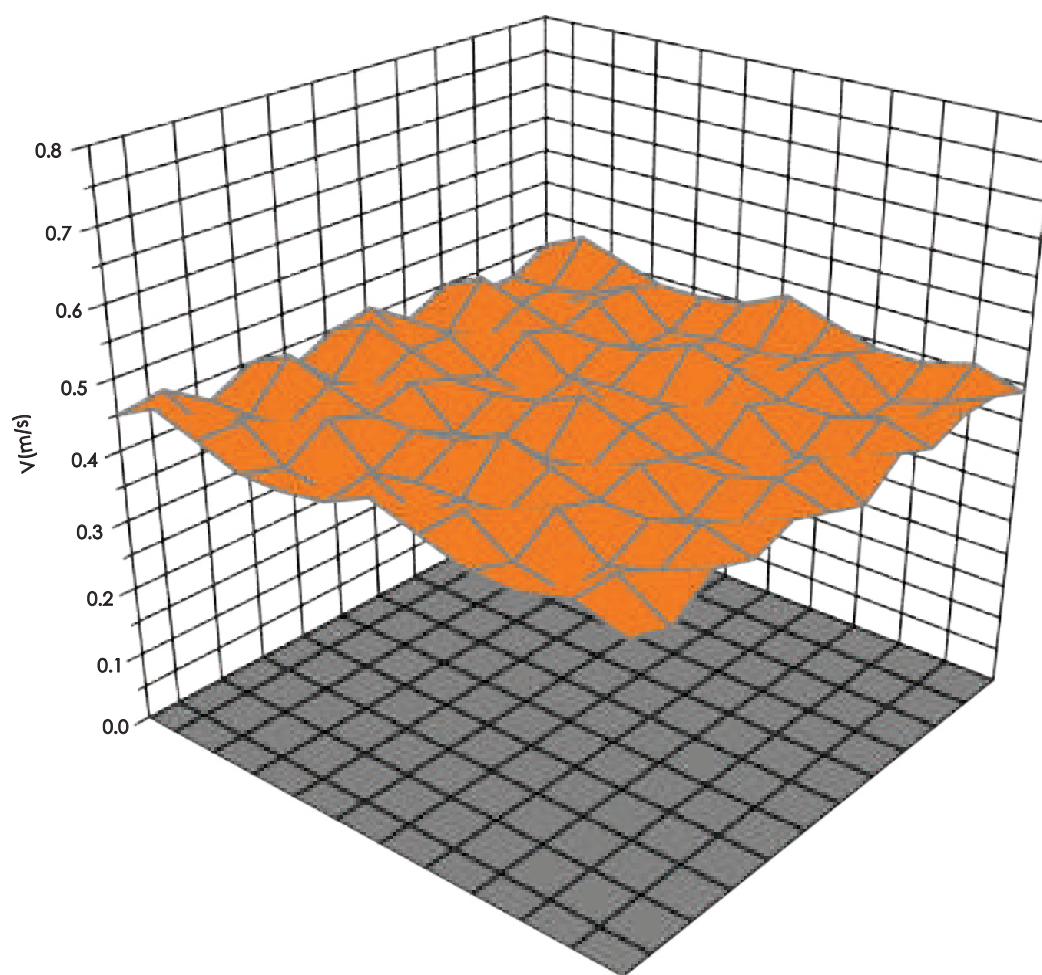
Speed Controller

Type: None / manual speed controller / small scale centralized speed controller



Uniformity of Air Distribution

Ensure the deviation of face velocity is within $\pm 10\%$



▲ Air Velocity Distribution 3D Diagram



AC Motor Technical Data

Power Input: 1 Φ 220V - 240V 50Hz

Series	F-22AL	F-23AL	F-24AL	F-24AM
WxL (mm)	600x600/575x575	600x900/575x875	600x1200/575x1175	
H (mm)	250	250	250	275
Air Velocity (m/s)	0.45	0.45	0.45	0.45
Total Static Pressure (Pa)	250	220	210	310
Power Consumption (W)	80	110	120	155
Noise Level dB(A)	50	51	52	53
Vibration Level (mm/s)	0.7	0.8	1.2	1.2

Series	F-34AM	F-34AM1	F-44AM1	F-44AH
WxL (mm)	900x1200/875x1175		1200x1200/1175x1175	
H (mm)	275	275	275	275
Air Velocity (m/s)	0.45	0.45	0.45	0.45
Total Static Pressure (Pa)	250	275	205	285
Power Consumption (W)	175	225	245	305
Noise Level dB(A)	53.5	53	55	53.5
Vibration Level (mm/s)	1.2	1.2	1.3	1.4

EC Motor Technical Data

Power Input: 1 Φ 200V - 277V 50Hz

Series	F-22EL	F-23EL	F-24EL	F-24EM
WxL(mm)	600x600/575x575	600x900/575x875	600x1200/575x1175	
H(mm)	250	250	250	275
Air Velocity (m/s)	0.45	0.45	0.45	0.45
Total Static Pressure (Pa)	270	250	210	415
Power Consumption (W)	55	70	85	90
Noise Level dB(A)	49	50.5	51.5	51
Vibration Level (mm/s)	0.7	0.8	1.2	1.2

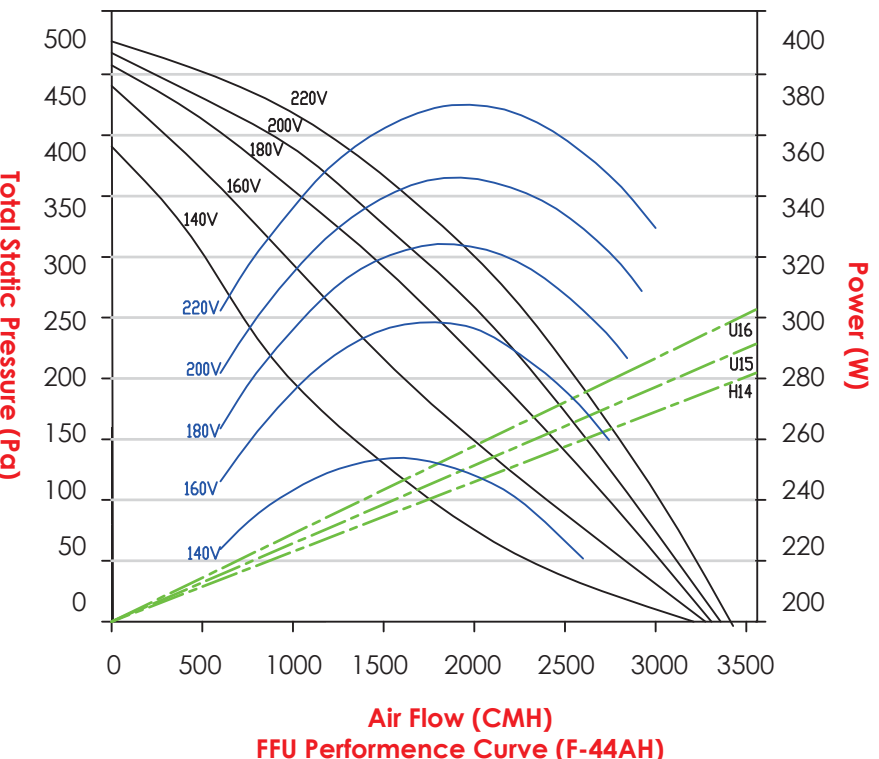
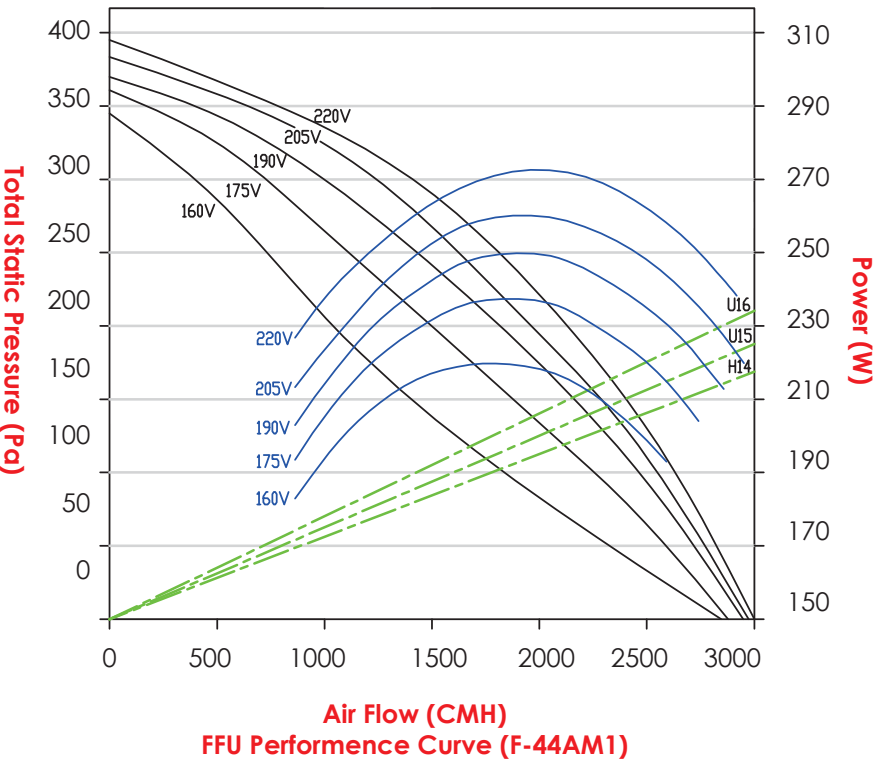
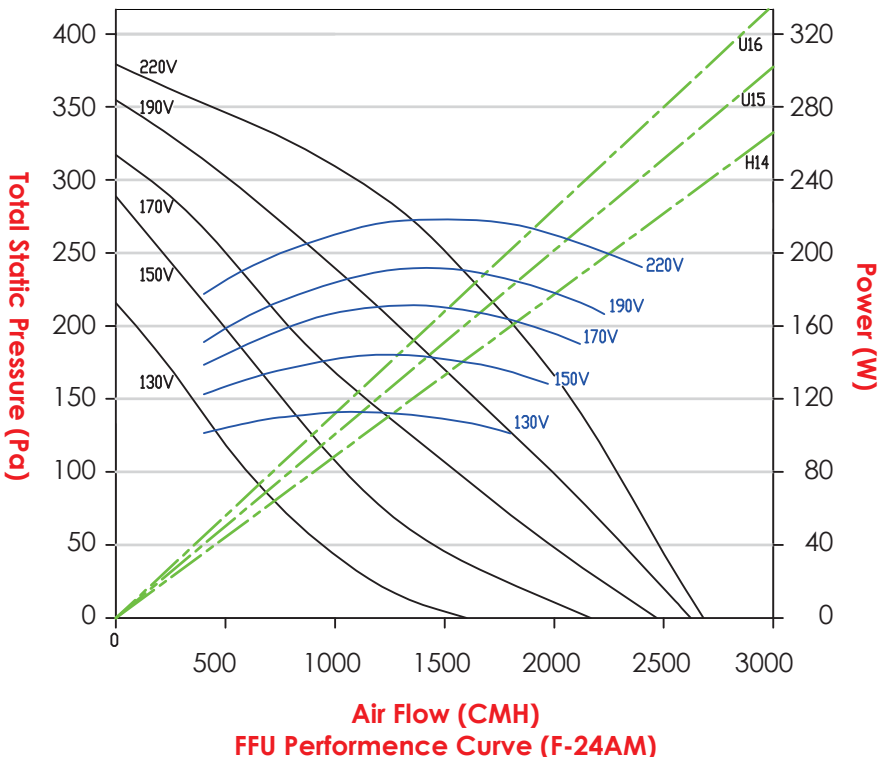
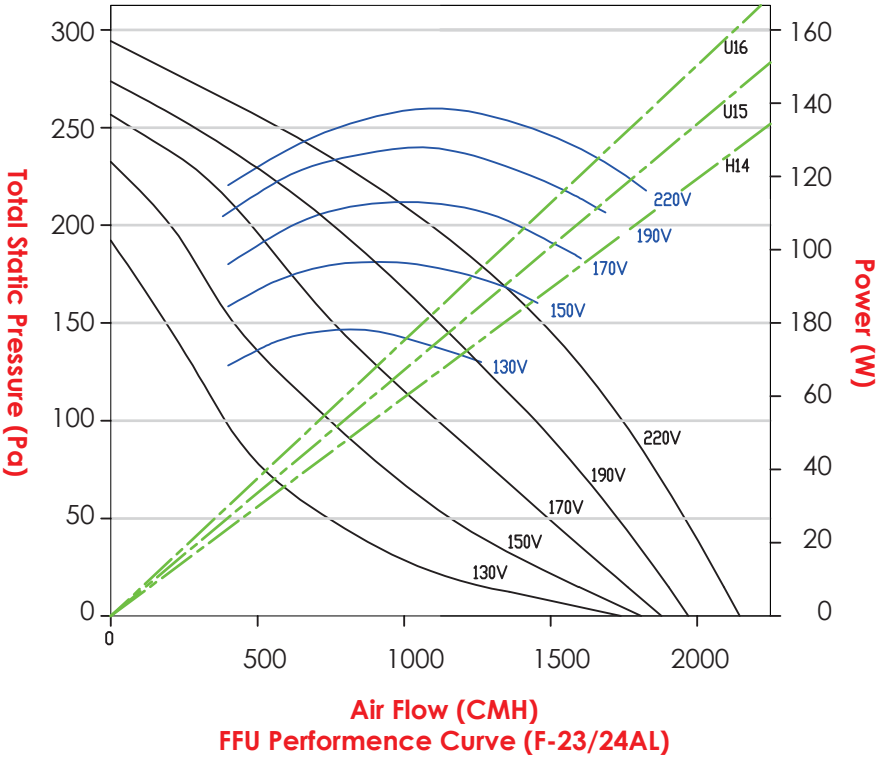
Series	F-34EM	F-34EH	F-44EH
WxL (mm)	900x1200/875x1175		1200x1200/1175x1175
H (mm)	275	275	275
Air Velocity (m/s)	0.45	0.45	0.45
Total Static Pressure (Pa)	320	430	360
Power Consumption (W)	120	125	180
Noise Level dB(A)	53	52.5	53.5
Vibration Level (mm/s)	1.2	1.2	1.4

Remarks: 1. Test point of noise is 1.5m below filter downstream.
2. Test point of air velocity is 0.15m below the filter.
3. FFU sizes can be customised upon request.
4. FFU power consumption in above tables is based on FFU initial performance.

Fan Filter Unit
FFU Performance Curves
FFU



AC Motor

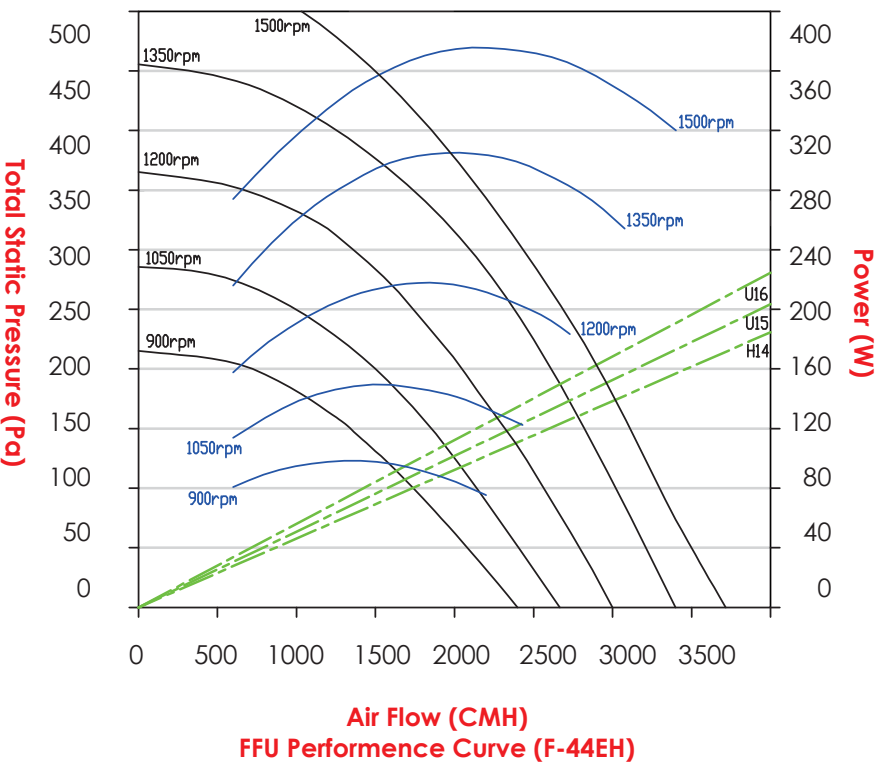
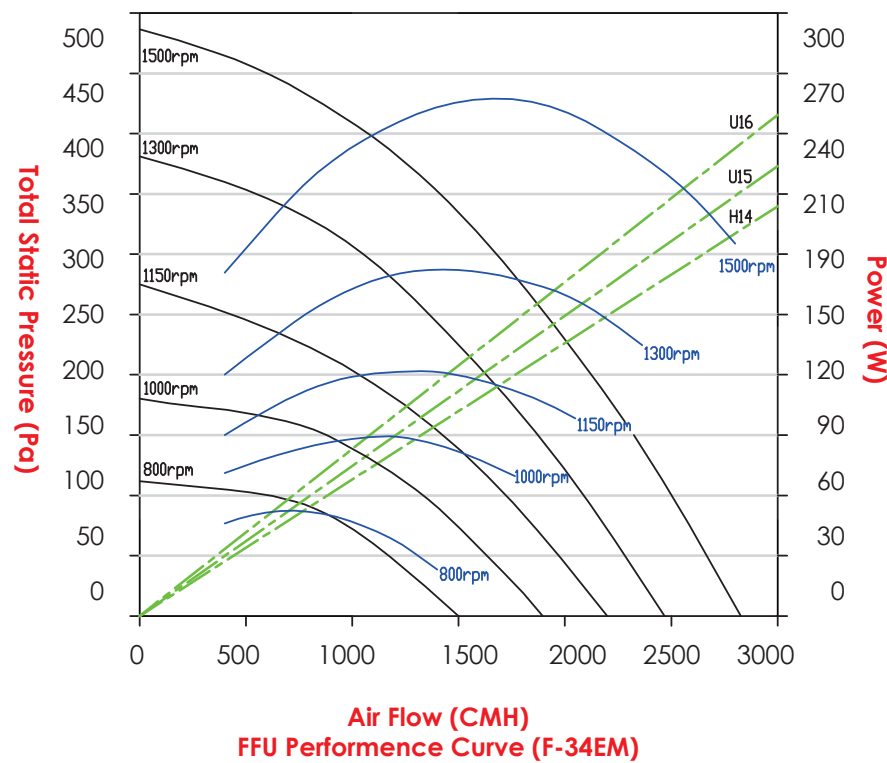
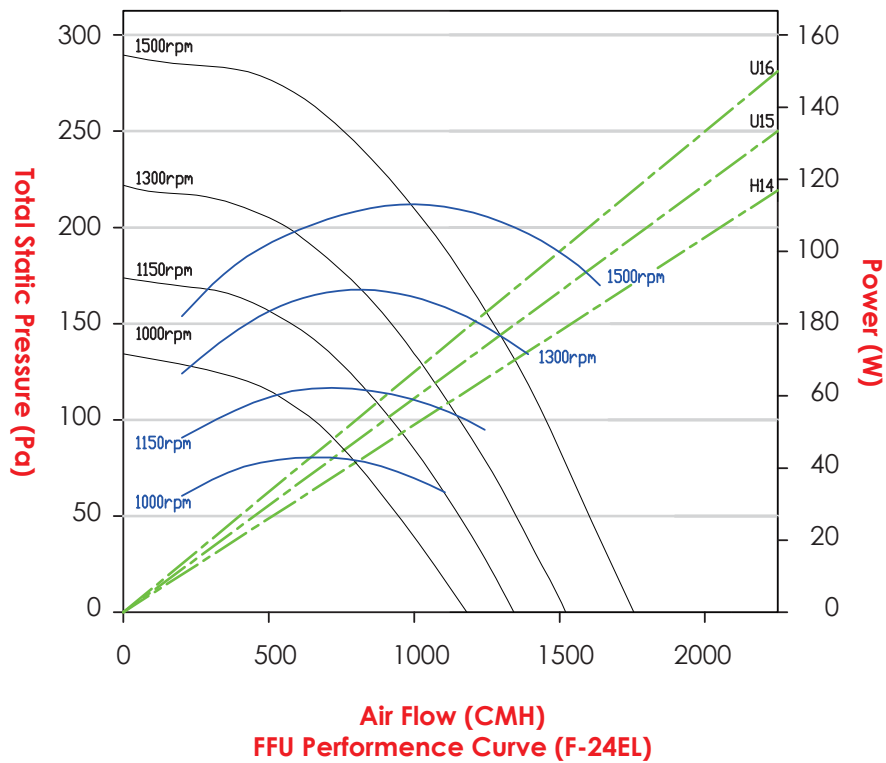


— Total Static Pressure - Air Flow curve — Power - Air Flow curve - - - HEPA/ULPA filter initial pressure drop - Air Flow curve (Thickness: 70mm)

Fan Filter Unit
FFU Performance Curves
FFU

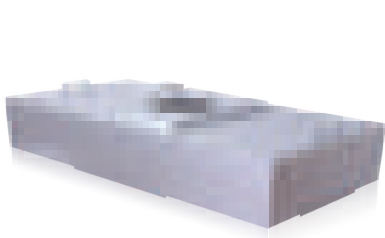


EC Motor



— Total Static Pressure - Air Flow curve — Power - Air Flow curve - - - HEPA/ULPA filter initial pressure drop - Air Flow curve (Thickness: 70mm)

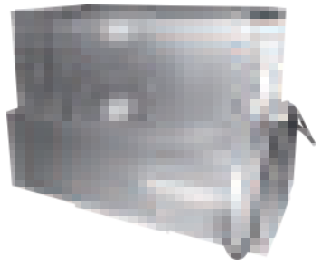
Type of FFU Design



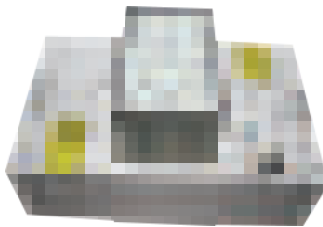
Ultra-Slim Design



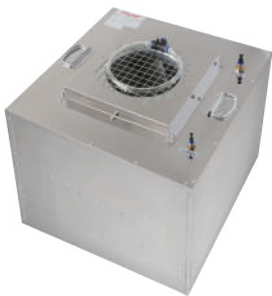
Gel-Seal HEPA Design



Dry-Coil Design



10-Steps Controller Design



Test Port Design



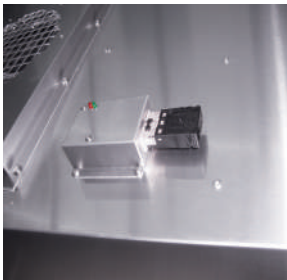
Bottom-load Design



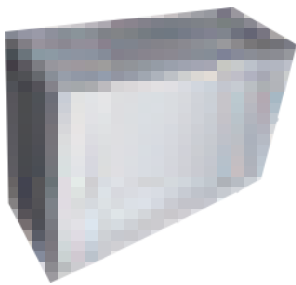
Remote-Controoled Design



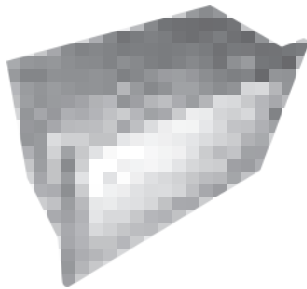
Air Velocity-Pressure Drop Monitoring Design



Euro Plug Design



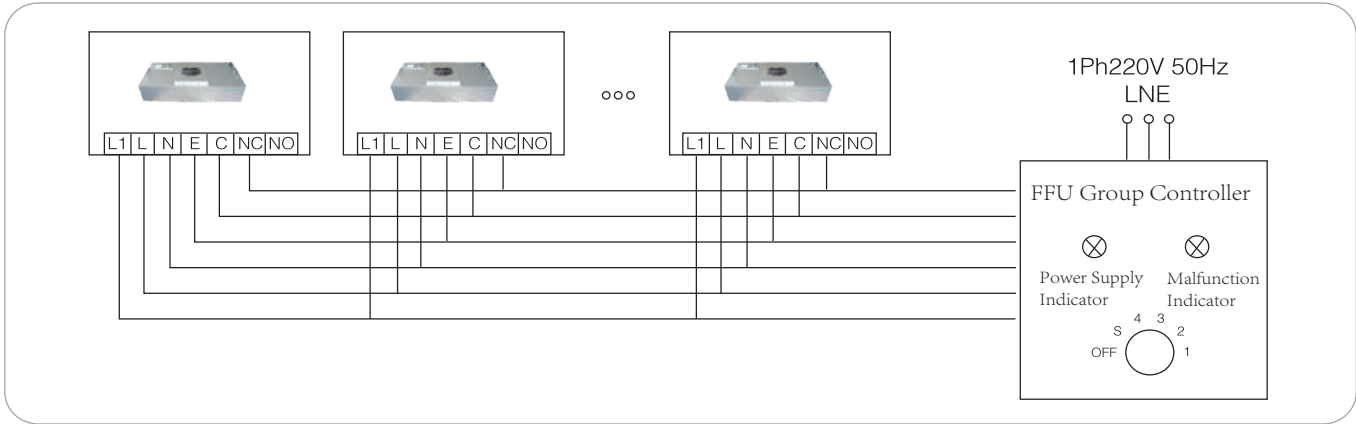
Bottom-Load with Cover Design



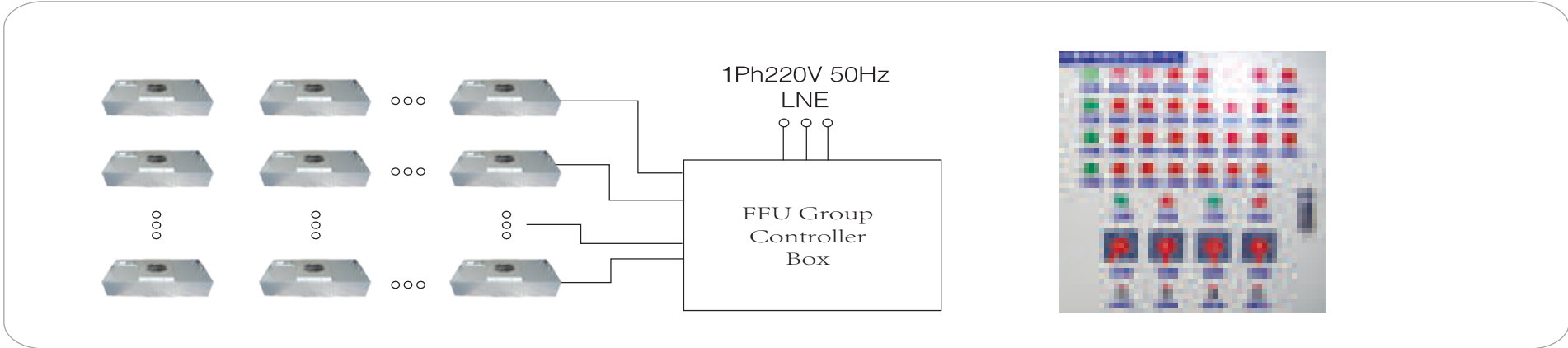
Bottom-load with Flange Design

FFU

Group Controller

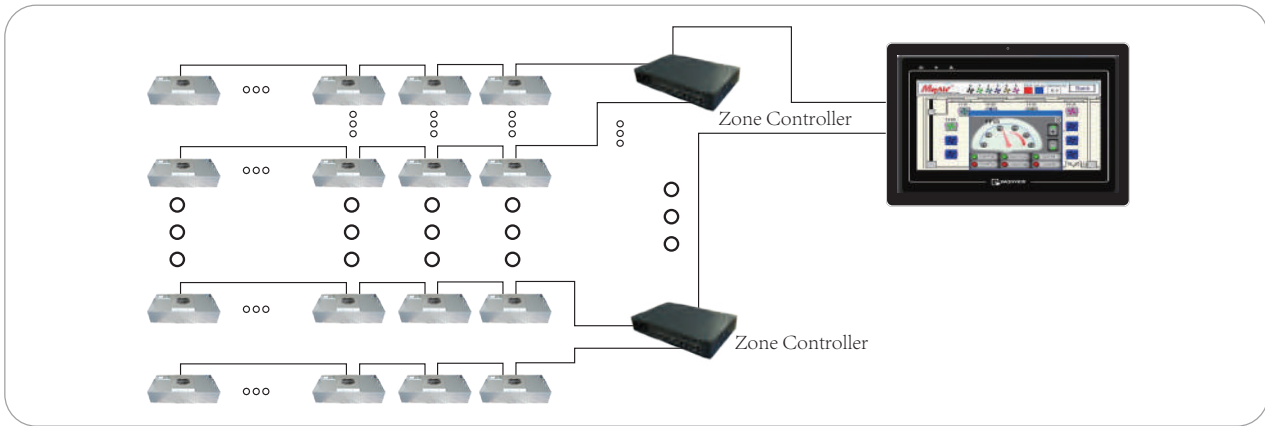


Multiple FFU Group Controller



FFU

Multiple FFU Touch Screen Control

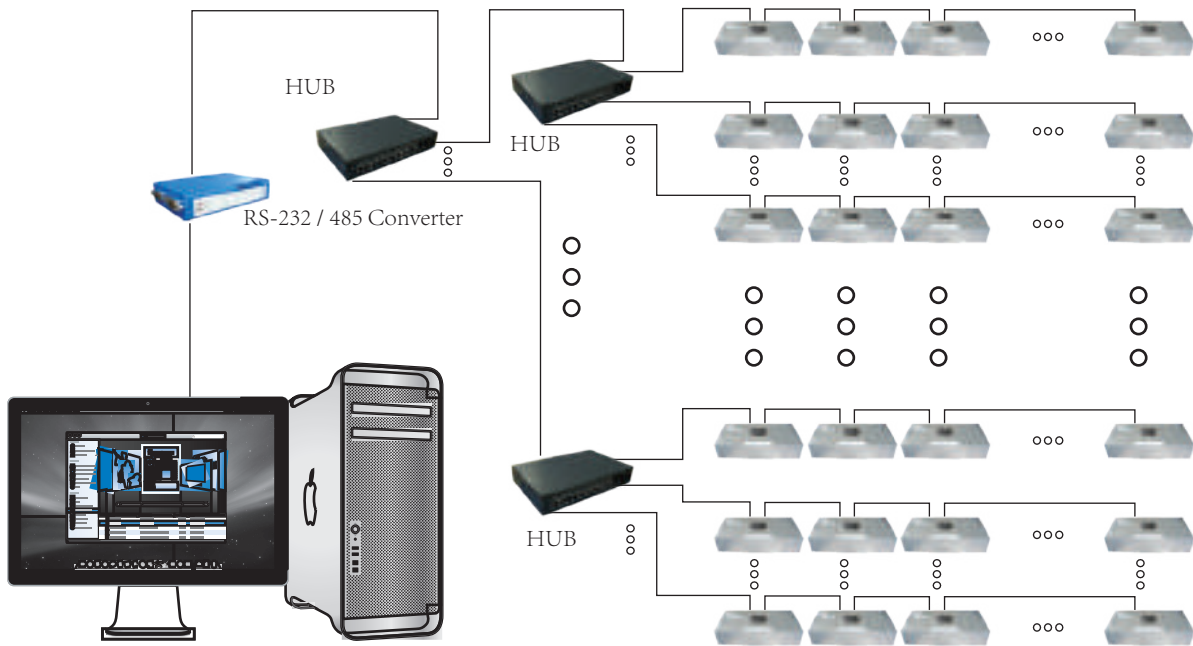


Product Features

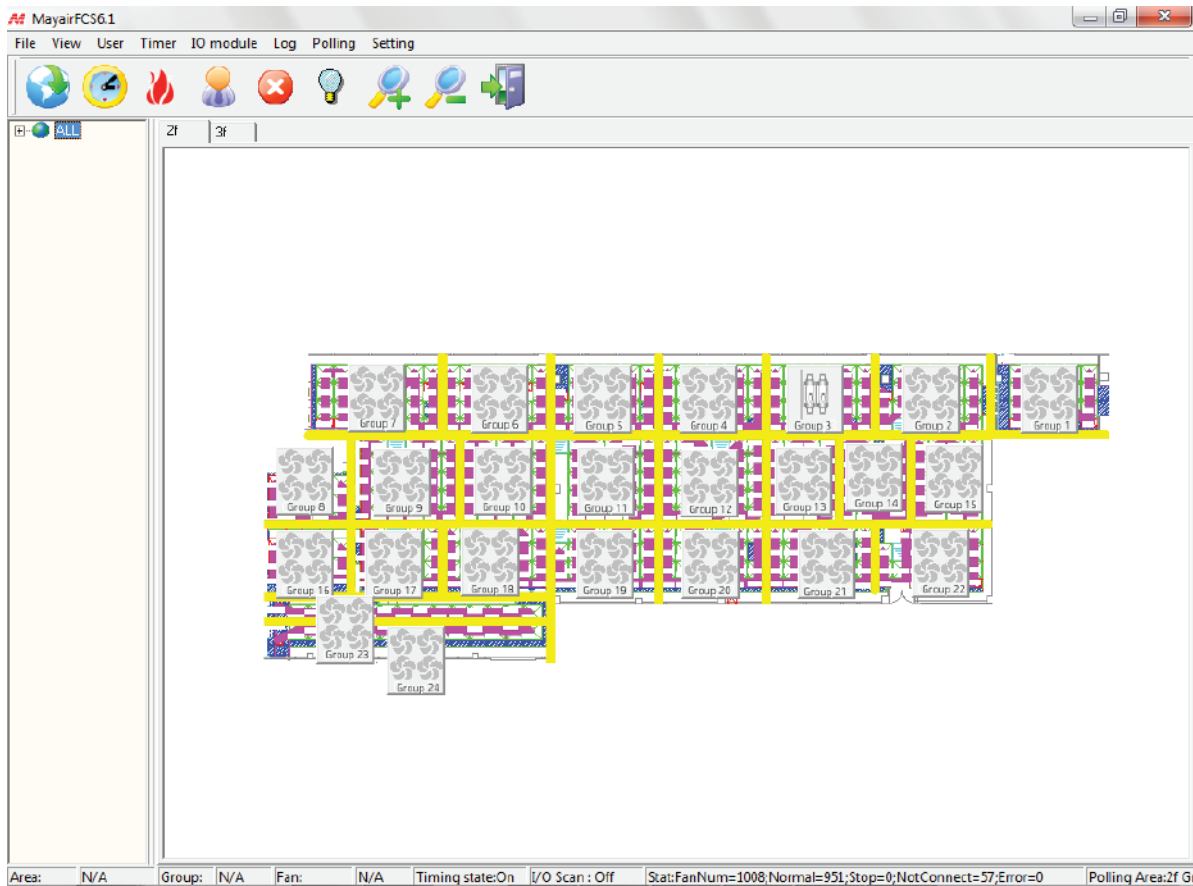
- Reliable alternating current FFU control system.
- Group or single unit alarm indicator.
- 3-stage or 5-stage fan speed controller.
- Over-current protection.
- Remote monitoring system uses RS-485 communication module.

MayAir FCS AC FFU Group Control System

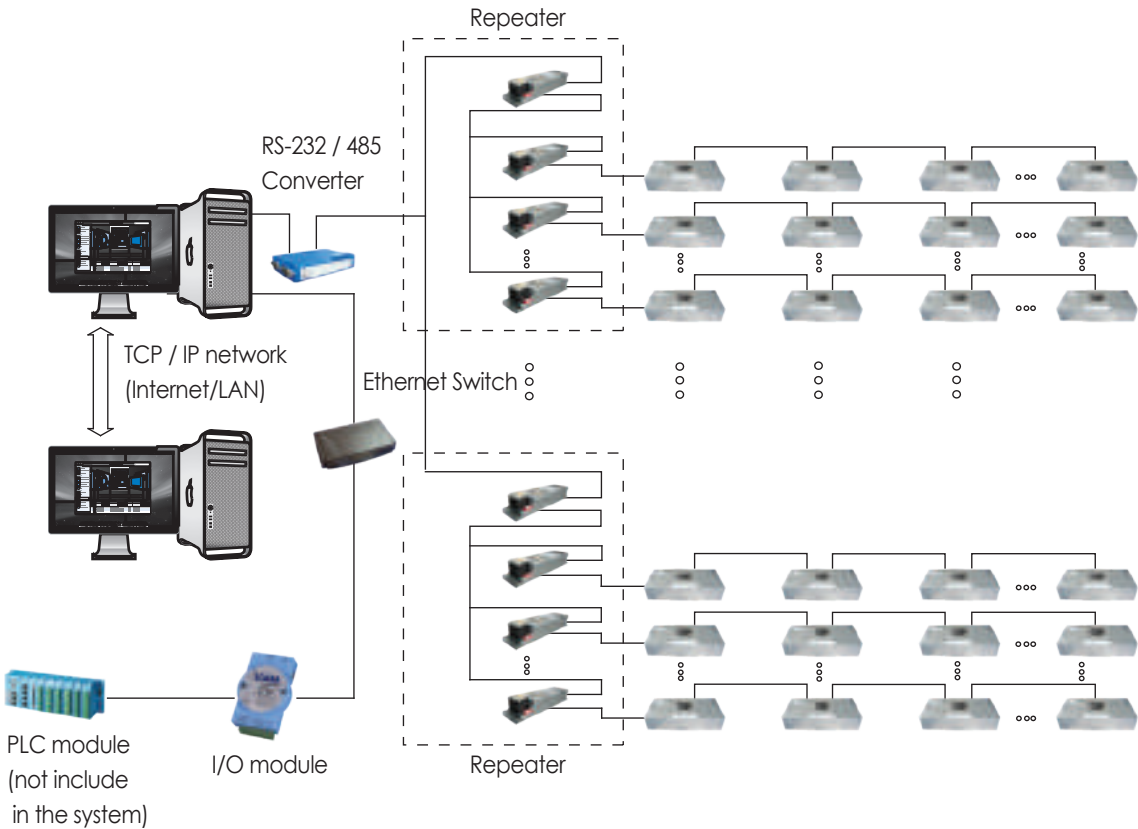
Product Features



- Comprehensive functions able to overcome large-scale alternating current FFU control problem.
- Able to control FFU that are installed at different floors or different locations. It also able to control FFU installed in same working area/zone but different room according to group.
- Uses RS-485 communication module, integrated hardware configuration that is also low investment and easy installation.
- Centralised control of FFU's initiation, stop, fan speed and timing. Operation of the system is simple and energy saving.
- Auto display fan speed and malfunction indicator allow accurate identification of FFU position which ease the process of fault message diagnosis.
- Auto FFU group initialisation by sequence (delay start up) prevents power supply disruption/ cut off due to large-scale system initiate synchronously at the same time.
- 4 level password protection control system allows a comprehensive and easy configuration of user management.
- User-friendly system incorporated with multiple languages such as English, simplified Chinese and traditional Chinese, suitable for user from different countries and regions.
- FFU initiation utilizes low current, thus prevents power supply disruption.



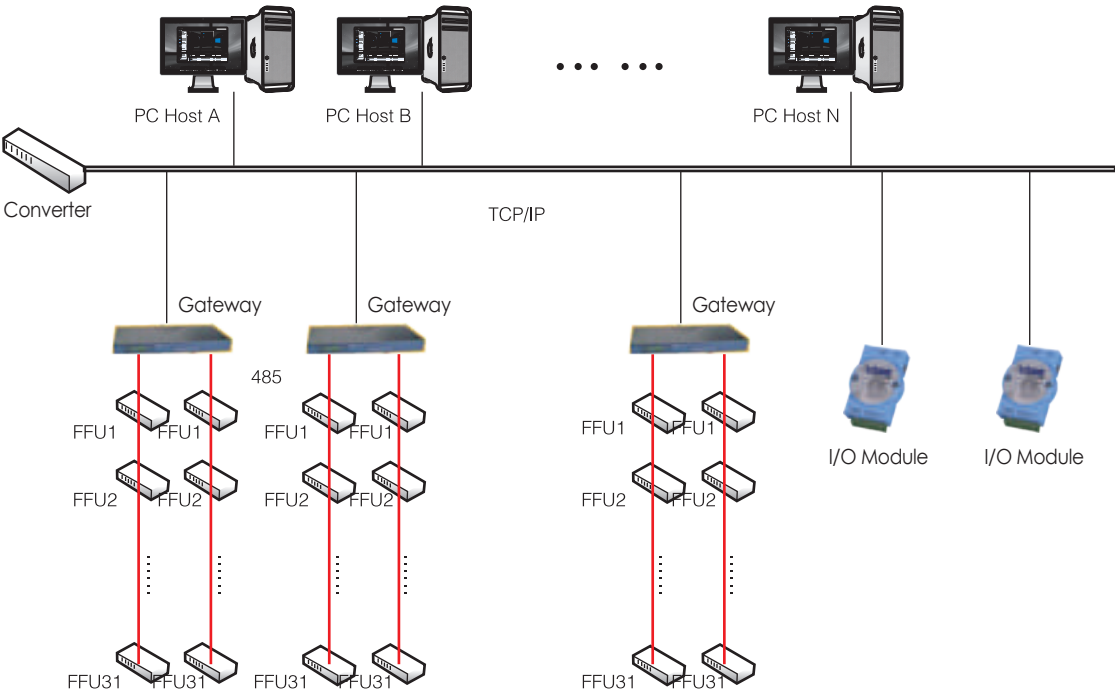
MayAir EFCS EC FFU Group Control System



Product Features

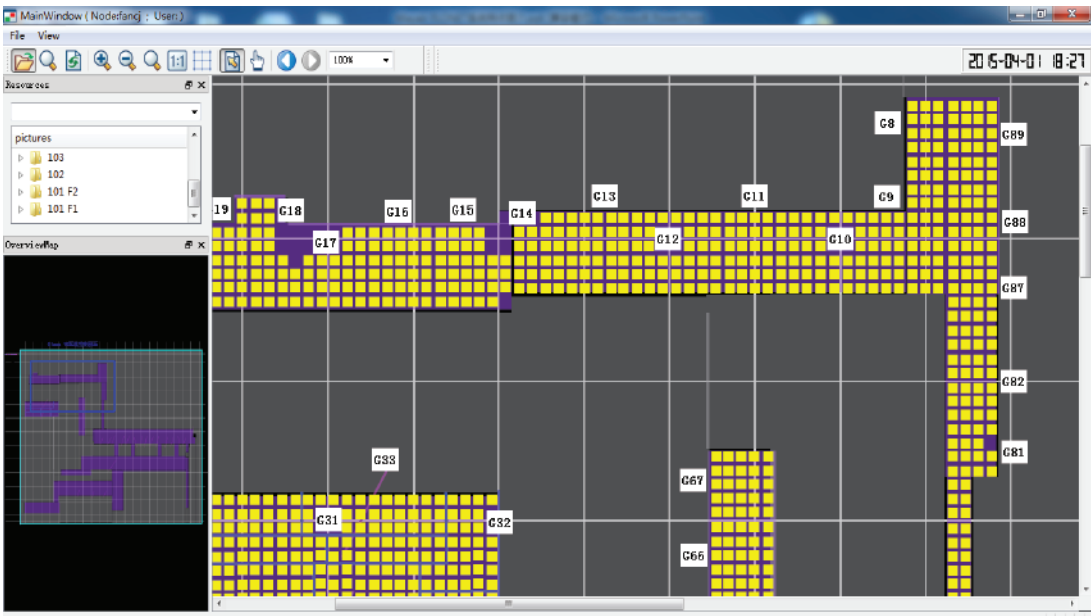
- Able to control FFU that are installed at different floors or different locations. It also able to control FFU installed in same working area/zone but different room according to group.
- Uses RS-485 communication module, integrated hardware configuration that is also low investment and easy installation.
- Centralised control of FFU's initiation, stop, fan speed and timing. Operation of the system is simple and energy saving.
- Can operate together with user's fire alarm system by synchronising fire alarm grouping with FFU grouping. This allows FFU to slow down or cease operation according to the fire alarm signal.
- Upon receiving of fire alarm signal, the system will alarm via sound and light system.
- Auto display fan speed and malfunction indicator allow accurate identification of FFU position which ease the process of fault message diagnosis.
- User can monitor FFU through internet or intranet.
- 4 level password protection control system allows a comprehensive and easy configuration of user management.
- User-friendly system incorporated with multiple languages such as English, simplified Chinese and traditional Chinese, suitable for users from different countries and regions.
- FFU initiation utilizes low current, thus prevents power supply disruption.

MayAir FLONET Direct Current FFU Group Control System



Product Features

- High control capacity. Able to perform real-time monitoring and control 50,000 units FFU.
- Short response time.
- Convenient installation through ID registration.
- Remote control of MayAir FLONET system.
- OPC communication protocol.
- Optional email service function.
- Difference color display feature to indicate the FFU working condition.
- Able to perform individual room, area and all FFU control. This is done using feature shown in software as individual/ port/ server/ all FFU.
- Mouseover function on FFU for speed and exact address display.
- Operation log and error log are recorded by the system.
- Able to show each FFU power consumption.
- Perform real-time statistic analysis for FFU condition in the whole system.
- Timer function in MayAir FLONET able to set FFU operation according to the factory/operation room working hours.
- 3 level high security authorisation: Administrator, operator and guest.





Applications

- Industrial
- Commercial Building
- General

Product Features

- Operating Conditions**

Continuous operating temperature:
-10°C~+40°C
Operating relative humidity: ≤100 (%RH)


- Frame**

Material: Epoxy powder coated cold rolled steel


- Media**

Material: Synthetic fiber
Thickness: 10mm
Length: 15m/roll


- Power Supply**

Voltage: 50 Hz (110V, 115V, 200V, 220V, 230V)
60Hz (110V, 220V, 240V)
Power consumption: 200W (1/4HP)


- Control Features**

Control Box: Logo/ PCB controller and
Electrical controller
Default: Power supply indicator, media usage
indicator, manual/ auto controller
Optional: Motor operation signal output,
pressure difference indicator


- Efficiency (EN779:2012)**

G3, G4



Product Specifications

Total Filter Width		Total Filter Height									
Foot (mm)	5(1524)	6(1829)	7(2134)	8(2438)	9(2743)	10(3048)	11(3353)	12(3658)	13(3962)	14(4267)	15(4572)
03 (914)	6413	8702	10991	13280	15569	17858	20147	22436	24725	27014	29303
04 (1219)	8756	11881	15006	18131	21256	24381	27506	30631	33756	36881	40007
05 (1524)	11099	15060	19021	22982	26943	30905	34866	38827	42788	46749	50711
06 (1829)	13441	18239	23036	27833	32631	37428	42225	47022	51820	56617	61415
07 (2134)	15784	21417	27051	32684	38318	43951	49585	55218	60852	66485	72119
08 (2438)	18127	24596	31066	37535	44005	50475	56944	63414	69883	76353	82823
09 (2743)	20469	27775	35081	42386	49692	56998	64304	71609	78915	86221	93527
10 (3048)	22812	30954	39096	47238	55379	63521	71663	79805	87947	96088	104231
11 (3353)	25155	34133	43111	52089	61067	70045	79022	88000	96978	105956	114935
12 (3658)	27497	37312	47126	56940	66754	76568	86382	96196	106010	115824	125639
13 (3962)	29840	40490	51141	61791	72441	83091	93741	104392	115042	125692	136343
14 (4267)	32183	43669	55156	66642	78128	89615	101101	112587	124073	135560	147047
15 (4572)	34526	46848	59170	71493	83815	96138	108460	120783	133105	145428	157751
16 (4877)	36868	50027	63185	76344	89503	102661	115820	128978	142137	155295	168454
17 (5182)	39211	53206	67200	81195	95190	109184	123179	137174	151169	165163	179158
18 (5486)	41554	56384	71215	86046	100877	115708	130539	145369	160200	175031	189862
19 (5791)	43896	59563	75230	90897	106564	122231	137898	153565	169232	184899	200566
20 (6090)	46239	62742	79245	95748	112251	128754	145258	161760	178264	194767	211270
21 (6401)	48582	65921	83260	100599	117939	135278	152617	169956	187295	204635	221974
22 (6706)	50924	69100	87275	105450	123626	141801	159976	178152	196327	214503	232678
23 (7010)	53267	72279	91290	110302	129313	148324	167336	186348	205359	224370	243382
24 (7315)	55610	75457	95305	115153	135000	154848	174695	194543	214391	234238	254086

Air Flow (m³/h)

Remarks: 1. The air flow data above are calculated based on 2.5m/s.
2. Multiple units are merged when the width is greater than 6ft.

Air Flow (m³/h)

V-Shaped Auto Roll Filter
Autoroll



Applications



Industrial



Commercial Building



General

Product Features

Operating Conditions

Continuous operating temperature:
-10°C~+40°C
Operating relative humidity: ≤100 (%RH)



Frame

Material: Epoxy powder coated cold rolled steel



Media

Material: Synthetic Fiber
Thickness: 10mm
Length: 15m/roll



Power Supply

Voltage: 50 Hz (110V / 115V / 200V / 220V / 230V)
60Hz (110V / 220V / 240V)
Power consumption: 200W (1/4HP)



Control Features

Control Box: Logo/ PCB controller and
Electric control
Default: Power supply indicator, media usage
indicator, manual/ auto controller
Optional: Motor operation signal output,
pressure difference indicator



Efficiency (EN779:2012)

G3, G4



Product Specifications

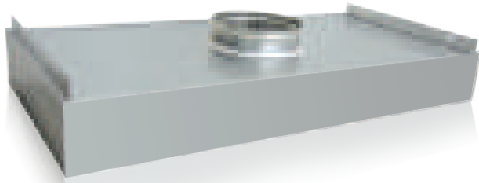
Total Filter Width		Total Filter Height										
Foot (mm)	5(1524)	6(1829)	7(2134)	8(2438)	9(2743)	10(3048)	11(3353)	12(3658)	13(3962)	14(4267)	15(4572)	Air Flow (m³/h)
03(914)	9620	13053	16487	19920	23354	26787	30221	33654	37088	40521	43955	
04(1219)	13134	17822	22509	27197	31884	36572	41259	45947	50634	55322	60011	
05(1524)	16649	22590	28532	34473	40415	46358	52299	58241	64182	70124	76067	
06(1829)	20162	27359	34554	41750	48947	56142	63338	70533	77730	84926	92123	
07(2134)	23676	32126	40577	49026	57477	65927	74378	82827	91278	99728	108179	
08(2438)	27191	36894	46599	56303	66008	75713	85416	95121	104825	114530	124235	
09(2743)	30704	41663	52622	63579	74538	85497	96456	107414	118373	129332	140291	
10(3048)	34218	46431	58644	70857	83069	95282	107495	119708	131921	144132	156347	
11(3353)	37733	51200	64667	78134	91601	105068	118533	132000	145467	158934	172403	
12(3658)	41246	55968	70689	85410	100131	114852	129573	144294	159015	173736	188459	
13(3962)	44760	60735	76712	92687	108662	124637	140612	156588	172563	188538	204515	
14(4267)	48275	65504	82734	99963	117192	134423	151652	168881	186110	203340	220571	
15(4572)	51789	70272	88755	107240	125723	144207	162690	181175	199658	218142	236627	
16(4877)	55302	75041	94778	114516	134255	153992	173730	193467	213206	232943	252681	
17(5182)	58817	79809	100800	121793	142785	163776	184769	205761	226754	247745	268737	
18(5486)	62331	84576	106823	129069	151316	173562	195809	218054	240300	262547	284793	
19(5791)	65844	89345	112845	136346	159846	183347	206847	230348	253848	277349	300849	
20(6090)	69359	94113	118868	143622	168377	193131	217887	242640	267396	292151	316905	
21(6401)	72873	98882	124890	150899	176909	202917	228926	254934	280943	306953	332961	
22(6706)	76386	103650	130913	158175	185439	212702	239964	267228	294491	321755	349017	
23(7010)	79901	108419	136935	165453	193970	222486	251004	279522	308093	336555	365073	
24(7315)	83415	113186	142958	172730	202500	232272	262043	291815	321587	351357	381129	

Air Flow (m³/h)

Remarks: 1. The air flow data above are calculated based on 2.5m/s.
2. Multiple units are merged when the width is greater than 6ft.

Disposable High Efficiency
Ceiling Module

M-Cam



Applications

Semiconductor

Micro-electronic

Pharmaceutical & Laboratories

General

Food Processing Industry

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)

Frame

Material: Anodised aluminium
Thickness: 150mm
Top plate: Galvanised steel / epoxy powder coated SPCC
Gasket: EPDM / neoprene
Collar diameter: 250mm, 300mm, 350mm
Collar thickness: 70mm

Media

Material: Ultrafine fiberglass

Filter Efficiency (EN1822:2009)

H13, H14, U15, U16

Faceguard

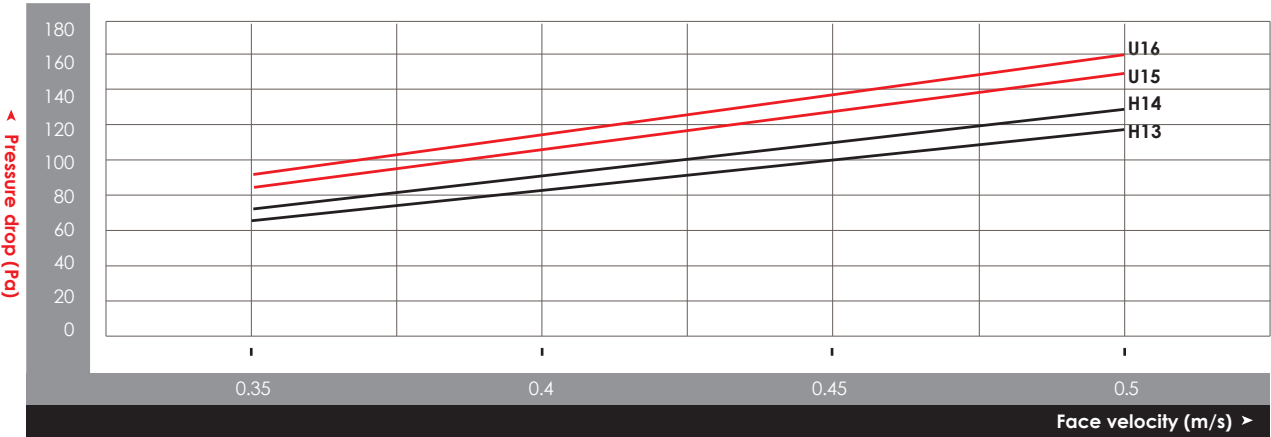
Material: Epoxy powder coated steel
Diffuser plate: Galvanised steel

Optional Accessories

Thermal insulator: PE black insulation cotton

etc.

Graph of Initial Pressure Drop versus Face Velocity



Product Specifications

Dimension (mm)	Air Flow (m³/h)	Initial Pressure Drop at 0.45 m/s (Pa)			
		H13	H14	U15	U16
WxHxD					
610x1220x152	1116	100	110	125	140
610x1210x152	1110	100	110	125	140
570x1170x152	996	100	110	125	140
610x610x152	546	100	110	125	140
600x600x152	528	100	110	125	140
570x570x152	474	100	110	125	140

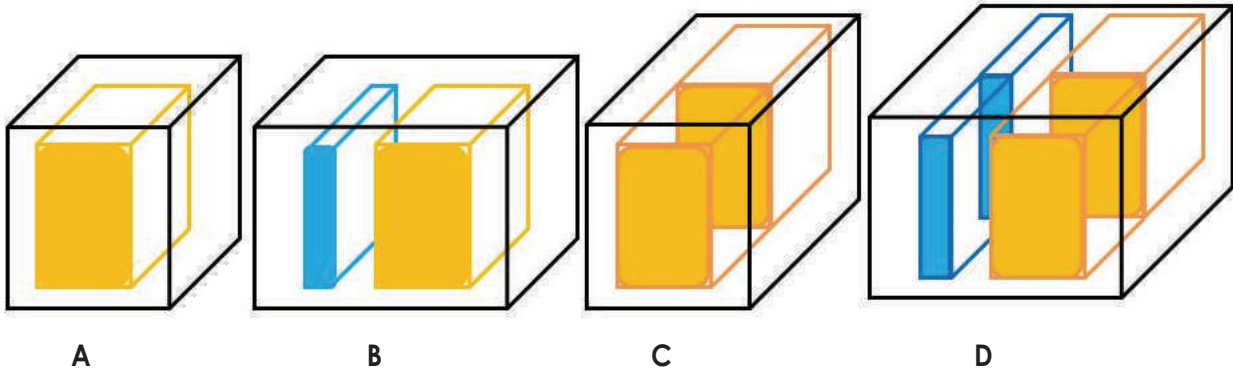
Remarks: 1. Available in three air inlet collar diameters, 14"φ(350mm), 12"φ(300mm) and 10"φ(250mm).
2. Height of the product included air inlet is 220mm.
3. Recommended final pressure drop is 300Pa.

Bag-In Bag-Out System

M-BIBO



Combination



Applications



Semiconductor



Healthcare & Hospital



Pharmaceutical & Laboratories



Nuclear Power Plant



Food Processing Industry



Military Base

Product Features

Air Flow

1700CMH, 3400CMH, 5100CMH, 6800CMH



Arrangement

Horizontal / Vertical



Casing

Material: Epoxy powder coated cold rolled steel / 304 stainless steel / 316 stainless steel



Combination

- A - One main filter
- B - One pre-filter + one main filter
- C - Two main filters
- D - Two pre-filters + two main filters



Filter Dimension

Main: 610x610x292mm / 610x305x292mm
Primary: 610x610x46mm / 610x305x46mm



Optional Accessories

Zero leakage damper, decontamination port, duct transition, PAO test scanner

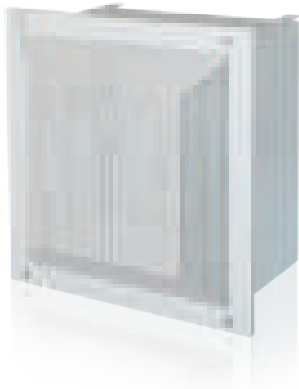


Testing

MayAir performs 100% testing before delivery on every products according to ASME N509/N510 standard. On-site in situ testing and filter testing (including PAO leak test) can also be performed upon request by customer. Filter automatic test feature can be installed upon request and every product comes with testing port. Online test setup or manual setup complements the filter efficiency scan test to ensure the products comply with the efficiency standard. BIBO will undergo a pressure test of 2500Pa during production to ensure a zero leakage is attained.

Replaceable High Efficiency Ceiling Module
(Mechanical-Sealed Type)

M-EBox



Applications



Cleanroom



Healthcare &
Hospital



Pharmaceutical
& Laboratories



General



Food Processing
Industry

Product Features

Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)



Box Casing

Material: Epoxy powder coated SPCC



Damper

Material: Epoxy powder coated SPCC



Filter Efficiency (EN1822:2009)

H13, H14, U15, U16



Faceguard

Material: Stainless steel (SUS 304) / epoxy powder coated SPCC / epoxy powder coated aluminium



Filter Brackets

Material: Galvanized steel



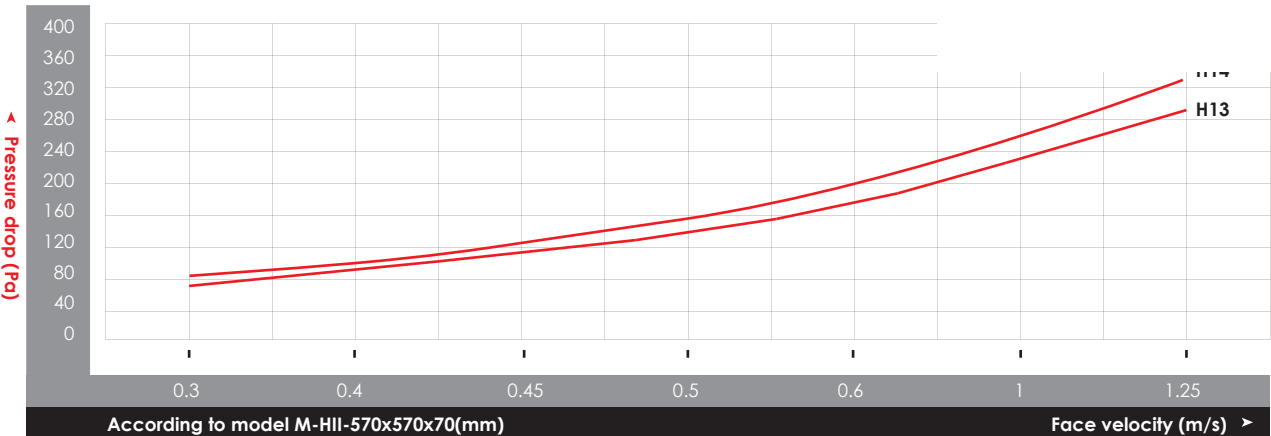
Optional Accessories

Thermal insulator: PE

etc.



Graph of Initial Pressure Drop versus Face Velocity



Air Inlet Collar and Damper Dimension

Air Inlet Collar Diameter (mm)	Air Inlet Collar Standard Height (mm)	Damper Standard Height (mm)
ø 250	60	230
ø 300	60	280
ø 350	60	330
ø 450	60	430

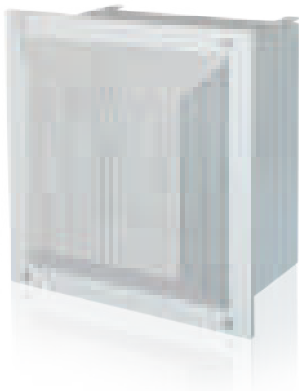
Product Specifications

Filter Dimension	Casing Dimension (Top Air Inlet)	Casing Dimension (Side Air Inlet)	Air Flow at 1.2m/s (m³/h)	Air Inlet Collar Diameter (mm)	Rectangular Inlet Collar Dimension (mm)	Filter Initial Pressure Drop	
LxWxH(mm)	LxWxH(mm)	LxWxH(mm)				H13(Pa)	H14(Pa)
340x340x70	410x410x280	410x410x450	500	ø250	200x200	280	300
340x340x90	410x410x300	410x410x450				250	270
484x484x70	554x554x280	554x554x450				280	300
484x484x90	554x554x300	554x554x450	1000	ø300	300x200	250	270
610x610x70	680x680x280	680x680x450	1500	ø350	400x200	280	300
610x610x90	680x680x300	680x680x450				250	270
870x570x70	940x640x280	940x640x450				249	280
870x570x90	940x640x300	940x640x450	2000	ø350	500x200	220	250
1170x570x70	1240x640x280	1240x640x450	2500	ø300*2 / ø450*1	630x200	249	280
1170x570x90	1240x640x300	1240x640x450				220	250
1220x610x70	1290x680x280	1290x680x450				249	280
1220x610x90	1290x680x300	1290x680x450	3000	ø300*2 / ø450*1	630x250	220	250

Remarks: 1. Side air inlet model only available with rectangular inlet.
2. Tolerance of performance initial pressure drop is ± 10%.

Replaceable High Efficiency Ceiling Module
(Gel-Sealed Type)

M-PBox



Applications

- Pharmaceutical & Laboratories
- Healthcare & Hospital
- General

Product Features

- Operating Conditions

Continuous operating temperature: Max. 80°C
Operating relative humidity: ≤100 (%RH)


- Box Casing

Material: Epoxy powder coated SPCC


- Damper

Material: Epoxy powder coated SPCC


- Filter Efficiency (EN1822:2009)

H13, H14, U15, U16


- Faceguard

Material: Stainless steel (SUS 304) / epoxy powder coated SPCC / epoxy powder coated aluminium


- Filter Brackets

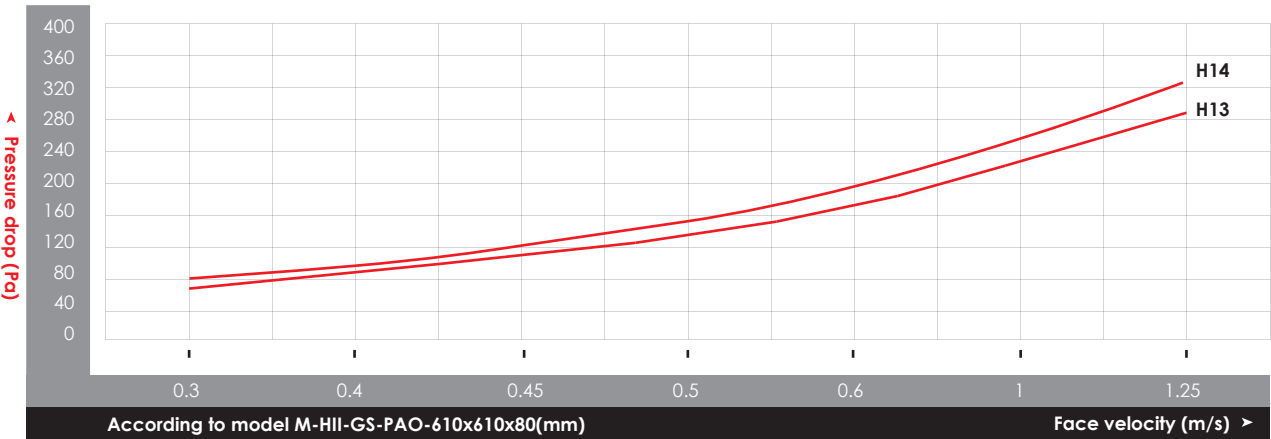
Material: Galvanized steel


- Optional Accessories

Thermal insulator: PE

etc.

Graph of Initial Pressure Drop versus Face Velocity



Air Inlet Collar and Damper Dimension

Air Inlet Collar Diameter (mm)	Air Inlet Collar Standard Height (mm)	Damper Standard Height (mm)
ø 250	60	230
ø 300	60	280
ø 350	60	330
ø 450	60	430

Product Specifications

Filter Dimension	Casing Dimension (Top Air Inlet)	Casing Dimension (Side Air Inlet)	Air Flow at 0.75m/s	Air Inlet Collar Diameter	Rectangular Inlet Collar Dimension	Filter Initial Pressure Drop	
L×W×H(mm)	L×W×H(mm)	L×W×H(mm)	(m³/h)	(mm)	(mm)	PAO H13(Pa)	PAO H14(Pa)
430×430×80	500×500×280	500×500×450	500	250	200×200	180	205
430×430×100	500×500×300	500×500×450				150	170
610×610×80	680×680×280	680×680×450			300×200	180	205
610×610×100	680×680×300	680×680×450	1000	300		150	170
915×610×80	985×680×280	985×680×450	1500	350	400×200	180	205
915×610×100	985×680×300	985×680×450				150	170
1220×610×80	1290×680×280	1290×680×450			500×200	180	205
1220×610×100	1290×680×300	1290×680×450	2000	350		150	170
1220×915×80	1290×985×280	1290×985×450	3000	Φ300*2 /	630×200	180	205
1220×915×100	1290×985×300	1290×985×450		Φ450*1		150	170

Remarks: 1. Side air outlet model only available with square port
2. Dimensions above is suitable for mechanical-sealed and design with PAO testing port
3. Tolerance of performance initial pressure drop is ± 10%

Laminar Air Flow Hood
(Mechanical-Sealed Type)
LAF-MS



Applications



Semiconductor



Pharmaceutical & Laboratories



Food Processing Industry

Product Features

Casing

Material: Stainless steel (SUS 304)



Filter Efficiency (EN1822:2009)

H14



Face Velocity

0.36 - 0.54 m/s



Cleanroom Class

Level A (according to GMP standard)



Light Supply



Sealing Type

Vacuum-sealed

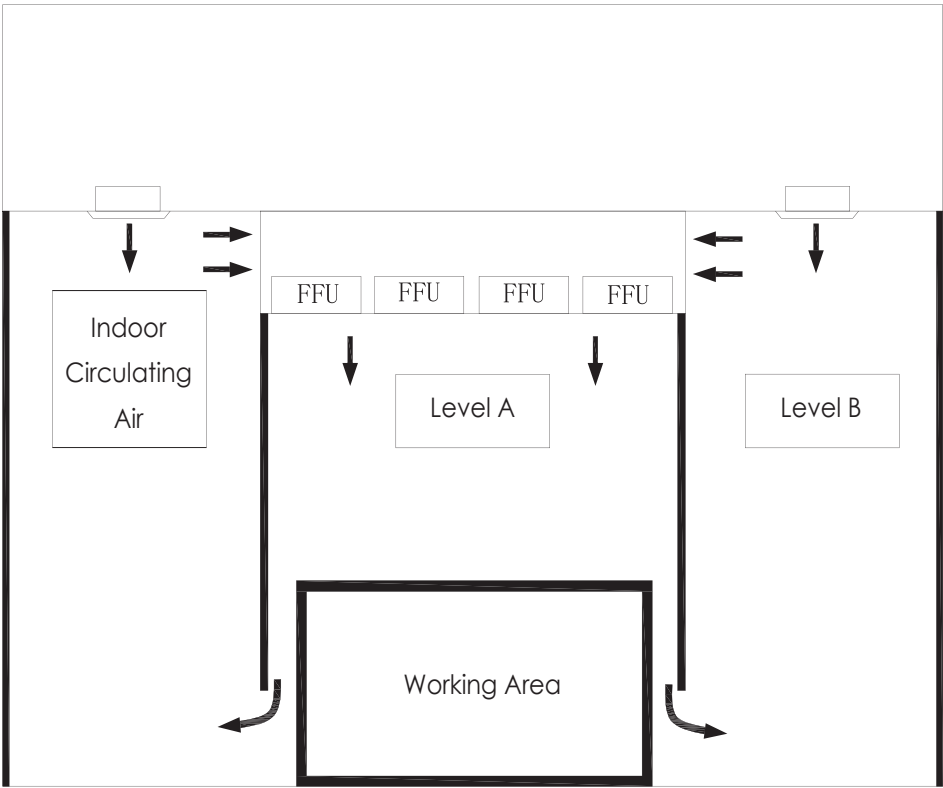


Noise Level

≤ 65 dB(A)



Working Principle



Remarks: 1. Customize size are available upon request.

Laminar Air Flow Hood
(Gel-Sealed Type)
LAF-GS



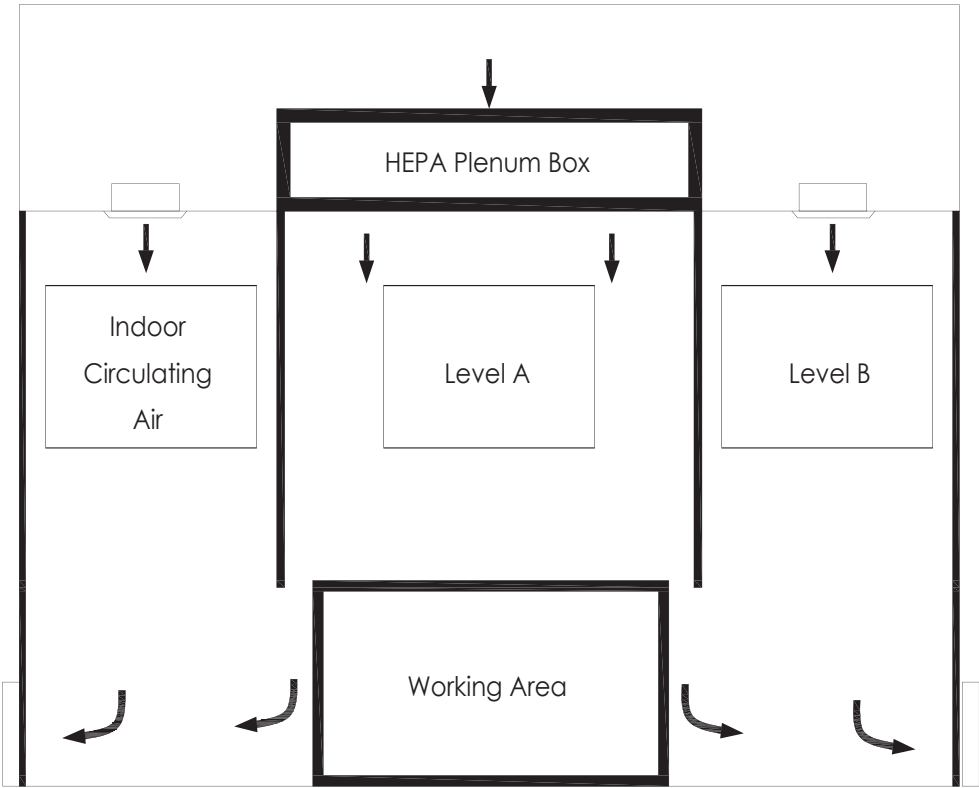
Applications

-  Semiconductor
-  Pharmaceutical & Laboratories
-  Food Processing Industry

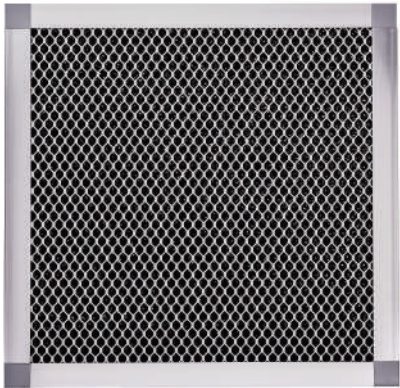
Product Features

- Casing**
Material: Stainless steel (SUS 304) 
- Filter Efficiency (EN1822:2009)**
H14 
- Face Velocity**
0.36 - 0.54 m/s 
- Cleanroom Class**
Level A (according to GMP standard) 
- Light Supply** 
- Sealing Type**
Gel-sealed 
- Noise Level**
≤ 65 dB(A) 

Working Principle



Remarks: 1. Customize size are available upon request.



Product Specifications

Filter Dimension	Thickness	Face Velocity	Initial Pressure Drop	Efficiency (30m³, 1hr)
W×H(mm)	(mm)	(m/s)	(Pa)	(%)
370x210	20	1	11	99
290x250	20	1	11	99
760x610	20	1	11	99
460x460	20	1	11	99

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Applications



Commercial Building



Residential



General

Product Features

Operating Principle

The formaldehyde in the air will be absorbed and attached on the filter media. The effective substances in the media will breakdown the formaldehyde into carbon dioxide and water.



Germicidal Air Filter
INACTEC



Product Specifications

Filter Dimension	Thickness	Face Velocity	Initial Pressure Drop	Efficiency (30m³, 1hr)
W×H(mm)	(mm)	(m/s)	(Pa)	(%)
370x210	20	1	11	99
290x250	20	1	11	99
760x610	20	1	11	99
460x460	20	1	11	99

Remarks: 1. Tolerance of initial pressure drop is ± 10%.
2. Tolerance of dimension is ± 3mm.
3. Other dimensions are available upon request.

Applications



Commercial Building



Residential



General

Product Features

Operating Principle

Germicidal effect take place when germs, virus and bacteria contact with filter surface.



Others

HEPA CAB
M-MOVL



Applications

- Pharmaceutical & Laboratories
- Cleanroom

Product Features

- Operating Conditions**
Continuous operating hours: 2-10 hours
- Face Velocity**
0.36 - 0.54 m/s
- Filter Efficiency (EN1822:2009)**
H14
- Cleanroom Class**
Level A (according to GMP standard)
- Casing**
Material: 304 Stainless Steel
- Sealing Type**
Vacuum-sealed
- Noise Level**
≤ 65 dB(A)

Clean Booth
M-CT



Applications

- Pharmaceutical & Laboratories
- Cleanroom
- General

Product Features

- Filter Efficiency (EN1822:2009)**
H13, H14, U15, U16
- Cleanroom Class**
Class 100 / Class 10 / Class 1
- FFU**
Material: Aluminium + SPCC / SPCC / stainless steel
- Supporting Frame**
Material: Epoxy powder coated steel
- Control Box**
Material: Epoxy powder coated steel
- Curtain**
Material: PVC
- Baffle Plate**
Material: Epoxy powder coated steel



Electrostatic Air Cleaner
AC Series (AHU Standard Type)

EAC-AC



Applications



Commercial
Building



General



Healthcare &
Hospital



Industrial

Product Features

Operating Conditions

Continuous operating temperature: 4~52°C
Not suitable for flammable environment



Efficiency (EN779:2012)

F7, F8 (ASHRAE 52.2)
PM2.5 testing efficiency: >90% at 2.5m/s
(with pre-filter)
Microbes testing efficiency: >90%
Able to remove particle with the size up to 0.01µm



Indicators

Operation, cleaning and malfunction indicators



Long Service Life

Up to 10 years



Low Power Consumption

≤ 39W



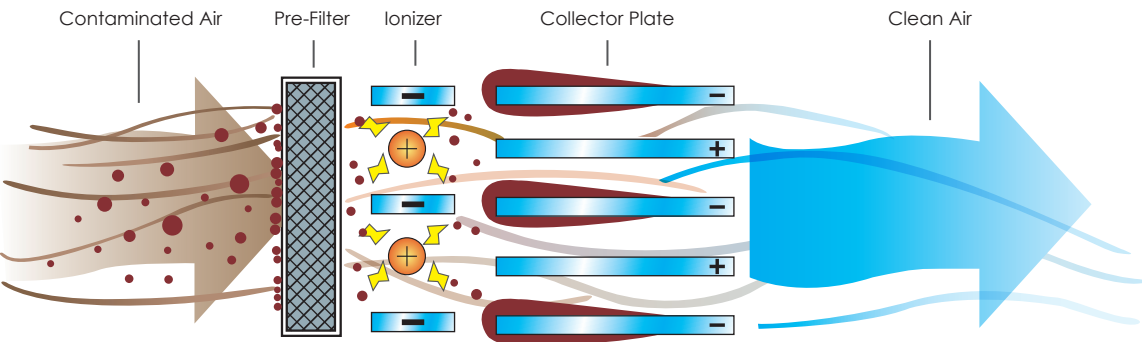
Low Initial Pressure Drop

25Pa



Working Principles

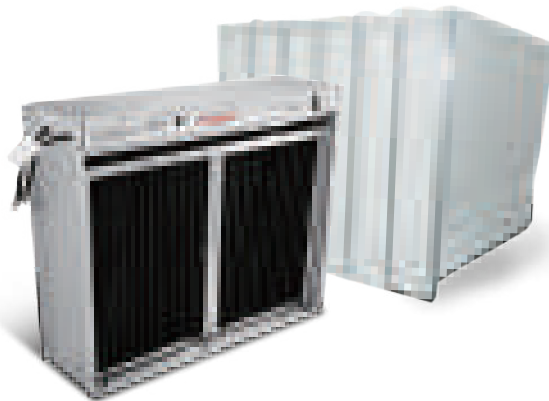
Suspended dust particles and impurities will be ionized after passing through the high voltage ionizer. Positively charged air particles will be attracted to the negative plate at the collection zone. Tiny particulate matters will be absorb on the collection plates under high voltage, which further achieve the sterilisation effect.



Specifications List

Parameters	Unit	Single Ionic Cell	Double Ionic Cell	Double Ionic Cell (Vertical)
Serial Number		EAC-370x610x180-AC	EAC-680x610x180-AC	EAC-370x1114x180-AC
Nominal Dimension (WxHxD)	mm	370x610x180	680x610x180	370x1114x180
Actual Dimension (WxHxD)	mm	369x610x182	681x610x182	369x1114x182
Number of Ionic Cell		1	2	2
Input Voltage / Current	V/A	220V/0.18A	220V/0.21A	220V/0.18A
Output Voltage / Current	kV/mA	6.2kV/3.2mA	6.2kV/3.2mA	6.2kV/3.2mA
Power	W	17	31	31
Filtration Efficiency		F7/F8	F7/F8	F7/F8
Initial Pressure Drop	Pa	25	25	25
Air Volume	m³/h	1700	3400	3400
Weight	kg	12	18	18

2-in-1 Series (Electrostatic Air Cleaner + M-HPack)



Product Special Feature

2 in 1 EAC able to remove PM2.5, bacteria & formaldehyde effectively. The combination of this two product able to produce high concentration charged ion. The high concentration charged ion will ionized the bacteria that remaining in the air and destroyed the cells of bacteria and thus leading the death of the bacteria.

Electrostatic Air Cleaner
FC-ST Series (Fan-Coil Standard Type)
EAC-FC



Applications



Commercial
Building



General



Healthcare &
Hospital



Industrial

Product Features

Operating Conditions

Continuous operating temperature: 4~52°C
Not suitable for flammable environment



Efficiency

Single pass efficiency (PM10) : 92.3% at 1.25m/s
Single pass efficiency (PM2.5) : 93.7% at 1.25m/s



Indicators

Operation, cleaning and malfunction indicators



Low Power Consumption



Low Initial Pressure Drop

7.4~10Pa at 1.25m/s



Types

Without Panel: Can combine with return air duct
With Panel: Can be installed on ceiling, wall or cabinet



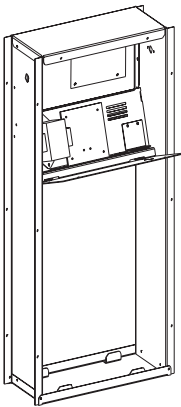
Product Specifications (Without Panel)

Parameters	Unit	Model		
Serial Number		EAC-280x551x110-FC	EAC-280x954x110-FC	EAC-523x551x110-FC
Nominal Dimension (WxHxD)	mm	280x551x110	280x954x110	523x551x110
Type		Single Ionic Cell	Double Vertical Ionic Cells	Double Ionic Cell
Number of Ionic Cell		1	2	2
Air Volume	m³/h	400	800	800
Pressure Drop	Pa	10Pa at 1.25m/s	10Pa at 1.25m/s	10Pa at 1.25m/s
Weight	kg	5.5	9	9
Power	W	15	20	20
Power Supply	V/Hz/PH	220V/50Hz/1PH	220V/50Hz/1PH	220V/50Hz/1PH
Output Voltage / Current	kV/mA	6.4kV/0.7mA	6.4kV/0.7mA	6.4kV/0.7mA

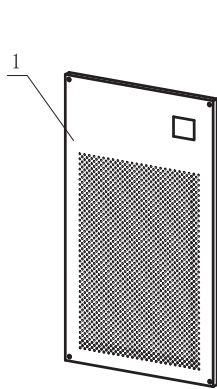
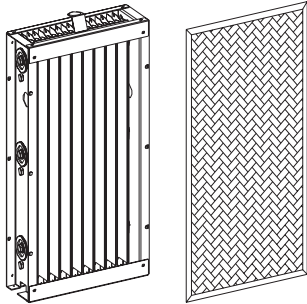
Product Specifications (With Panel)

Parameters	Unit	Model		
Serial Number		EAC-316x588x125-FC-P	EAC-316x991x125-FC-P	EAC-596x588x125-FC-P
Nominal Dimension (WxHxD)	mm	316x588x125	316x991x125	596x588x125
Type		Single Ionic Cell	Double Vertical Ionic Cells	Double Ionic Cell
Number of Ionic Cell		1	2	2
Air Volume	m³/h	400	800	800
Pressure Drop	Pa	10Pa at 1.25m/s	10Pa at 1.25m/s	10Pa at 1.25m/s
Weight	kg	8.5	14	14
Power	W	15	20	20
Power Supply	V/Hz/PH	220V/50Hz/1PH	220V/50Hz/1PH	220V/50Hz/1PH
Output Voltage / Current	kV/mA	6.4kV/0.7mA	6.4kV/0.7mA	6.4kV/0.7mA

Structure Layout



Front Load Design (Without Cover)



Front Load Design (With Cover)

1. Cover
2. M-Net (Primary Filter)
3. Ionic Cell
4. Safety Lock Switch
5. Electronic Housing
6. On/Off Switch
7. Frame

Electrostatic Air Cleaner (Bottom-Loaded)
FC-ST Series (Fan Coil Standard Type)

EAC-FC-ST



Specifications List

Serial Number	Ion Box Size (WxLxH,mm)	Air Volume (m³/h)	Input Voltage / Current (V/A)	Output Voltage / Current (V/A)	Power (W)	Weight (kg)
EAC-567x224x138-FC-ST	410x199x89	370	220V/0.15A	6.4V/0.7mA	28	7.0
EAC-767x224x138-FC-ST	610x199x89	550	220V/0.16A	6.4V/0.7mA	30	8.5
EAC-975x224x138-FC-ST	818x199x89	740	220V/0.17A	6.4V/0.7mA	32	10.0
EAC-1175x224x138-FC-ST	1018x199x89	920	220V/0.19A	6.4V/0.7mA	34	11.5
EAC-459x224x138-FC-ST	302x199x89	270	220V/0.145A	6.4V/0.7mA	29	6.2
EAC-667x224x138-FC-ST	510x199x89	460	220V/0.155A	6.4V/0.7mA	31	7.8
EAC-867x224x138-FC-ST	710x199x89	640	220V/0.165A	6.4V/0.7mA	33	9.3
EAC-1275x224x138-FC-ST	1118x199x89	1010	220V/0.195A	6.4V/0.7mA	35	12.3

Applications



Commercial
Building



General



Healthcare &
Hospital



Industrial

Product Features

Operating Conditions

Continuous operating temperature: 4~52°C
Not suitable for flammable environment



Efficiency (EN779:2012)

F8
Single pass efficiency (PM2.5): 97.3% at 1.25m/s
96.3% at 1.50m/s



Indicators

Operation, cleaning and malfunction indicators



Low Power Consumption



Low Initial Pressure Drop

7Pa at 1.25m/s



Air Flow Sensor

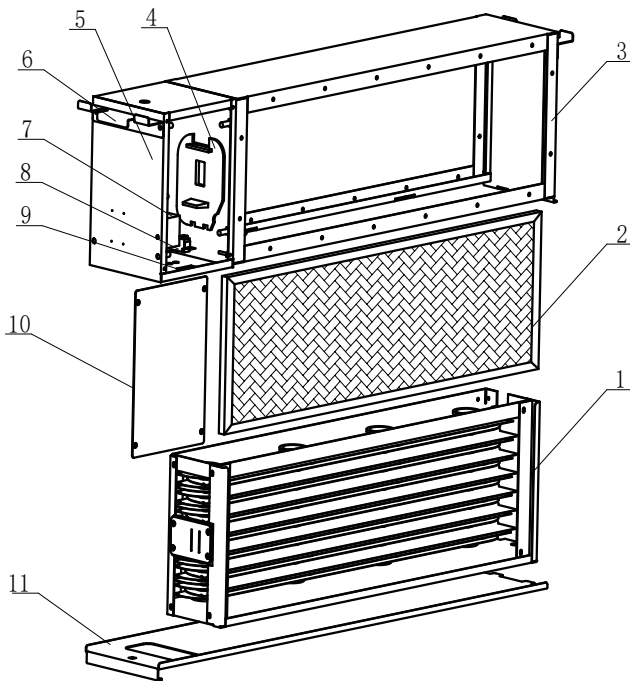


Washable

Washable ionic cell



Structure Layout



- 1. Ionic Cell
- 2. Nylon Filter (Primary Filter)
- 3. Frame
- 4. High Voltage Connector
- 5. High Voltage Input
- 6. Installation Flange
- 7. Transformer (24V)
- 8. On/ Off Switch
- 9. Safety Switch
- 10. Circuit Board Cover
- 11. Main Body Cover

Electrostatic Air Cleaner (Side-Loaded)
DS Series (Return Air Duct Type)
EAC-DS



Product Specifications

Parameters	Unit	Model	
Serial Number		EAC-336x629x210-DS	EAC-650x629x210-DS
Norminal Dimension (WxHxD)	mm	336x629x210	650x629x210
Number of Ionic Cell		1	2
Air Volume	m³/h	1700	3400
Pressure Drop	Pa	20Pa at 2.5m/s	20Pa at 2.5m/s
Weight	kg	13	22
Power	W	32	39
Input Voltage / Current	V/A	220V/50Hz/1Ph	220V/50Hz/1Ph
Output Voltage / Current	kV/mA	6.2kV/3.2mA	6.2kV/3.2mA

Applications



Commercial
Building



General



Healthcare &
Hospital



Industrial

Product Features

Operating Conditions

Continuous operating temperature: 4~52°C
Not suitable for flammable environment



Efficiency (EN779:2012)

F8



Indicators

Operation, cleaning and malfunction indicators



Low Power Consumption

≤39W



Low Initial Pressure Drop

20Pa



Air Flow Sensor

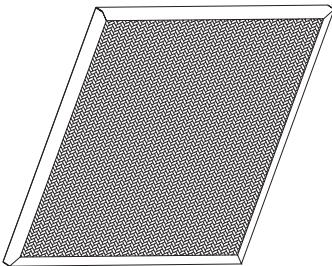
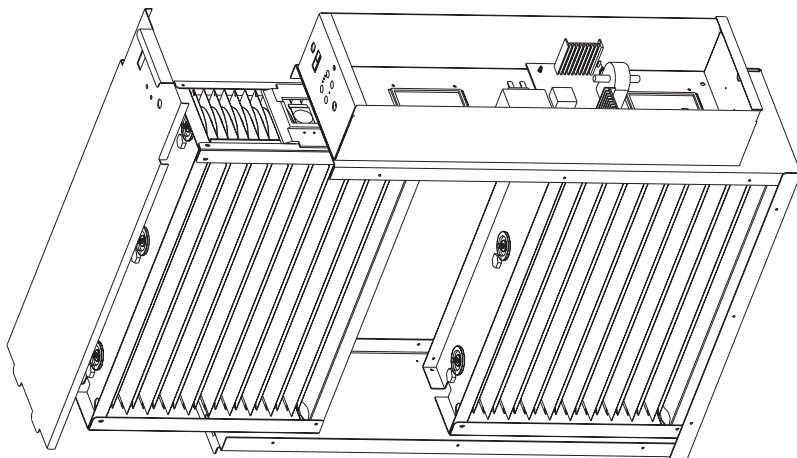


Washable

Washable ionic cell



Structure Layout



Electrostatic Air Cleaner (Side-Loaded)
FA Series (Air Duct Type)

EAC-FA



Product Specifications

Parameters	Unit	Model	
Serial Number		EAC-490x192x460-FA-ST	EAC-640x340x400-FA
Nominal Dimension (WxHxD)	mm	490x192x460	640x340x400
Outlet Dimension	mm	Φ142	400x280
Flange Shape		Round	Rectangular
Air Volume	m³/h	250~500	1000~1500
Weight	kg	15	25
Power	W	≤25	≤45
Input Voltage / Current	V/Hz	220V/50Hz	220V/50Hz
Output Voltage / Current	kV/mA	6.7kV/3.2mA	6.4kV/3.2mA
Colour		Black	Black

Applications

-  Commercial Building
-  Residential
-  General

Product Features

Structure/Arrangement

Filter arrangement: Pre-filter, electrostatic air cleaner series, carbon filter

Operating Conditions

Continuous operating temperature: 4~52°C

Low Initial Pressure Drop

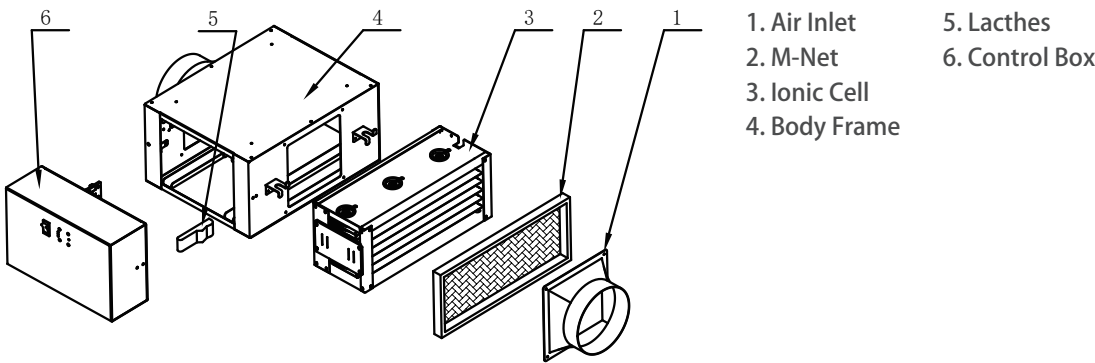
Low Noise Level

Washable

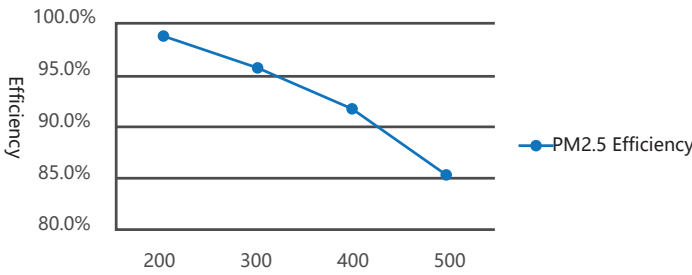
Recommended washing temperature: 40~50°C

Long Service Life

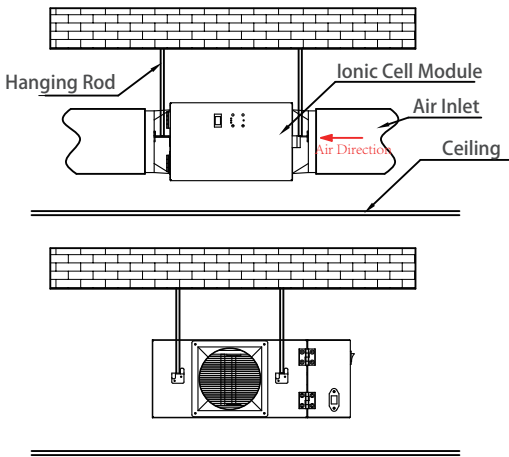
Structure Layout



PM2.5 Efficiency Graph



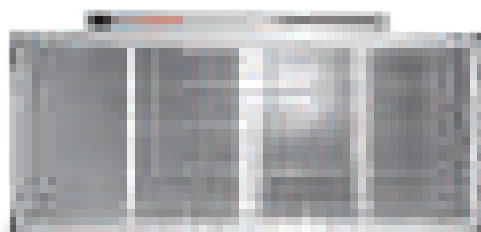
Installation Diagram



Filter are allowed to install upside-down based on site requirement (according to air direction)

Photocatalytic Air Purification Unit M-NML

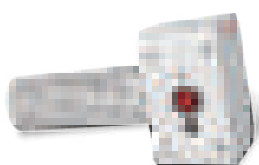
Air Duct Type (DS Series)



Return Air Type (FC Series)



Fan Coil Unit Type (FP Series)



Singular Unit Type (ZK Series)



UV-C Light (Ultraviolet Sterilisation)

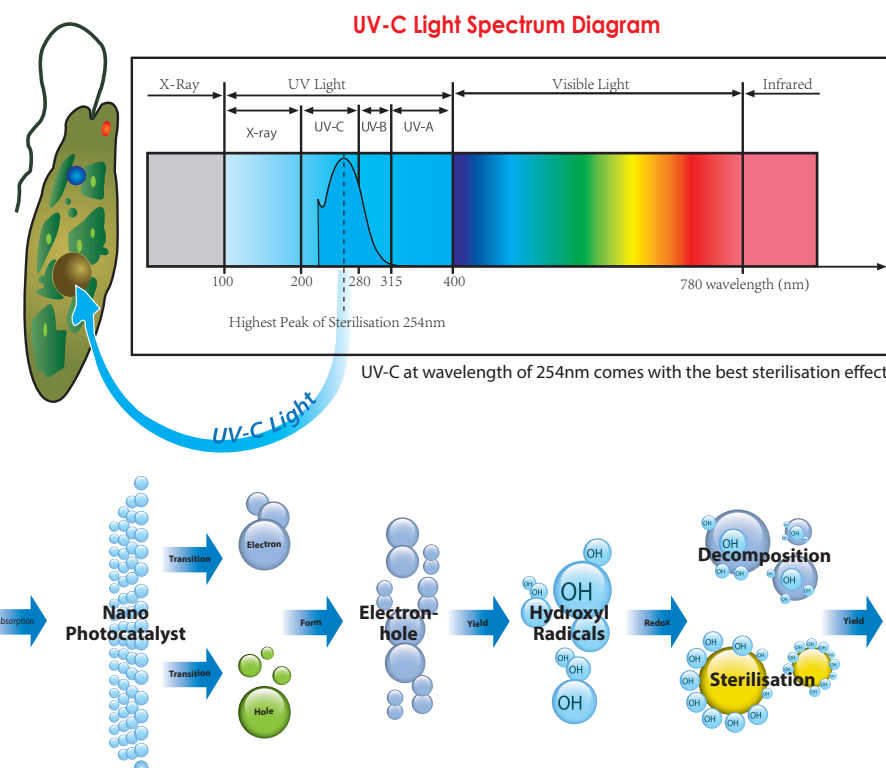
UV light are categorised into 4 different wavebands.

C waveband (UV-C): With sterilisation effect at the wavelength of 200-275 nm,

UV light at the wavelength of 254nm comes with high germicidal effect as it easily absorbed by living organisms. The photon energy ables to disintegrate DNA and RNA molecular structure of microorganisms. By breaking down the structure through photochemical reaction, the microorganisms lose the ability to reproduce and thus lead to death of the cells & sterilisation effect occurred.

Photocatalytic (Photocatalyst)

Nano photocatalyst is activated when specific wavelength of light is emitted. This will lead to the generation of electron-hole pairs and it then allows the photo-catalyst to react with the surrounding H_2O and O_2 molecules. The production of hydroxyl free radicals will enable the harmful contaminants to be captured and subsequently disintegrate the molecular structure and inhibit the growth of germs and viruses.



Applications



Commercial
Building



General



Healthcare &
Hospital



Industrial

Product Features

Efficiency

Germicidal efficiency: >99%
Formaldehyde / TVOC removal efficiency: >95%



Nano Photocatalytic Purification Unit (Single-Ended Probe)

- Flexible design : Can be installed at any openings of the air conditioning system such as fan coil, air ducts, AHU supply and return inlets.
- High sterilisation efficiency : Used high power dual-band 254nm wavelength UV light which having longer life span and able perform up to 96% of sterilisation efficiency.
- Reliable material : Titanium oxide (TiO_2) with 20nm below is used as catalyst material in order to maximize the photocatalytic effect. High purity silica glass is used as germicidal lamp material instead of using high boron glass material.
- Control feature : Manual or automatic switch with air flow sensor which synchronizes operation with the fan unit are available.

Nano Photocatalytic Purification Unit (Case Type)

- Variety of design available allow to cater various installations constraints.
- Installed with multiple high dual-band UV light and Titanium oxide (TiO_2) filter. The power of each individual UV lamp is not lower than 6W to ensure the effectiveness of sterilization in the AHU.

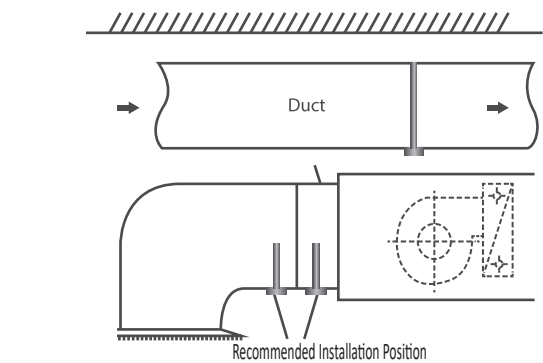
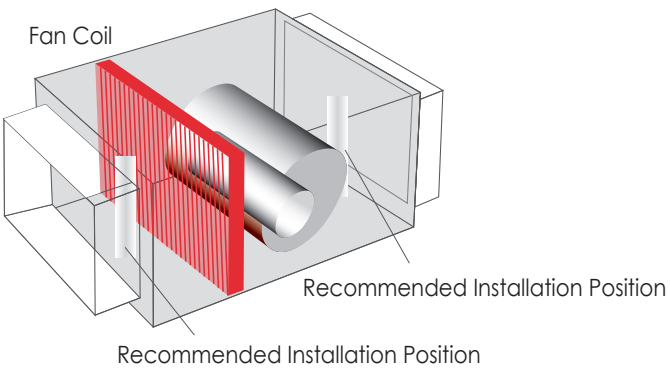
Photocatalytic Air Purification Unit

M-NML

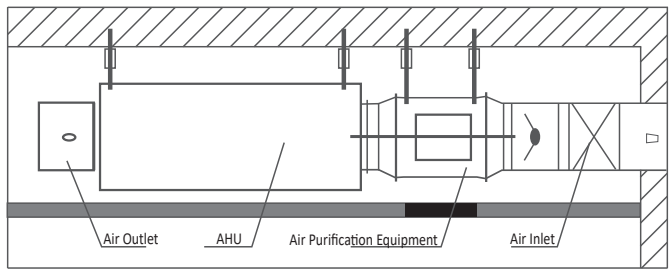


Installation Diagram

Nano Photocatalytic Purification Unit (Single-Ended Probe) Installation Diagram



Nano Photocatalytic Purification Unit (Case Type) Installation Diagram



Product Specifications (Single-Ended Probe)

Serial Number	Air Volume (m³/h)	Outer Dimension (with ballast) HxD (mm x ±2%)	Input Voltage (V) / Current (A)	Power (W)	Weight (kg)
NML-265x50-FP-6	300~1500	265x50	220V/50Hz/1Ph	6	1.0
NML-360X50-FP-15	1500~2500	360x50		15	1.2
NML-490x50-FP-23	2500~4000	490x50		23	1.5
NML-675X50-FP-30	4000~8000	675x50		30	1.9

Product Specifications (AHU Type)

Serial Number	Air Volume (m³/h)	Outer Dimension WxHxD (mm)	Input Voltage (V) / Current (A)	Power (W)	Weight (kg)
NML-610×305×120-ZK	2000~4000	610x305x120	220V/50Hz/1Ph	12	7
NML-305×610×120-ZK	3000~6000	305x610x120		20	7
NML-610×490×120-ZK	3500~7000	610x490x120		30	10
NML-490×610×120-ZK	4500~8000	490x610x120		40	10
NML-610×610×120-ZK	5000~10000	610x610x120		40	12

- Remarks:
- 1. Can be used as an independant air purification system.
 - 2. Compatitile with any brand of AHU system, custommised sizes are available upon request.
 - 3. Humidity: <70%
 - 4. Operating temperature 0~50°C

Product Specifications (Air Duct Type)

Serial Number	Air Volume (m³/h)	Outer Dimension WxHxD (mm)	Input Voltage (V) / Current (A)	Power (W)	Weight (kg)
NML-865x425×300-DS	2600~6000	865×425×300	220V/50Hz/1Ph	40	22
NML-795x625x300-DS	4000~9000	790×625×300		60	25
NML-1065x625x300-DS	5400~12600	1065×625×300		60	36
NML-1315x625x300-DS	6700~16000	1315×625×300		108	40
NML-1565x1125x300-DS	16000~38000	1565×1125×300		160	65
NML-2065x1125x300-DS	22000~50000	2065×1125×300		240	90

- Remarks:
- 1. Compatible with any types of ducting.
 - 2. Reflective aluminium plate can increase the efficiency of air purification by 70% and above.
 - 3. Extruded aluminium frame without flange allows direct connection with air duct.
 - 4. Custommised sizes are available upon request.

Product Specifications (Return Air Type)

Serial Number	Air Volume (m³/h)	Outer Dimension WxHxD (mm)	Input Voltage (V) / Current (A)	Power (W)	Weight (kg)
NML-560x320×120-FC	600~2000	560×320×120	220V/50Hz/1Ph	12	12
NML-860x320x120-FC	900~3000	860×320×120		18	15
NML-1260x320x120-FC	2400~5000	1260×320×120		30	23
NML-760x258x120-FC	800~2400	760×258×120		18	13
NML-960x258x120-FC	1600~4000	960×258×120		24	17
NML-1160x258x120-FC	2400~4500	1160×258×120		30	20

- Remarks:
- 1. Compatible with AHU or Fan-Coil Type,
 - 2. Custommised sizes are available upon request.

Electrostatic Air Cleaner
Ultrasonic Cleaning Equipment
M-XLNA



Applications



Commercial Building



General



Healthcare & Hospital



Industrial

Parts To Be Cleaned

- Ionic Cells
- Air Flow Sensor

Steps

Step 1:
Fill up the cleaner tank with water and heat the water until it is warm.

Step 2:
Pour the neutral detergent into the cleanser tank according to the ratio of the water in the tank. Check the filter efficiency before cleaning.

Step 3:
Soak the ionic cell in the tank for 30 minutes. After 30 minutes, wash the ionic cell with clean water and then air-dry. Check the filter efficiency after cleaning.

Recommendation:
Electronic air cleaner has to be washed every three months to maintain at the optimum efficiency.

Product Specifications

Model	Inner Dimension WxHxD (mm)	Outer Dimension WxHxD (mm)	Ultrasonic Power (W)	Ultrasonic Frequency (kHz)	Heating Power (W)	Inlet Power (W)	Weight (kg)	Capacity of the Tank (Number of Ionic Cell)
MXLNA-24	630x430x320	740x550x600	1200	40	4000	220/380	75	1
MXLNA-1036	680x530x360	800x650x600	1800	40	5000	220/380	96	2

Kitchen Exhaust System
Odor Buster (Ozone Generator)
M-KOZ



Product Specifications

Product Model	Actual Dimension	Air Volume	No. of PDP	Ozone Capacity	Power Consumption	Voltage	Weight
	(mm)	(m³/h)	(pcs)	(mg/hr)	(Watt)	(V/Hz)	(kg)
	WxHxD						
M-K-Oz10	350x172x170	10000	2	10000	160	220V/50Hz	4.65
M-K-Oz15	350x172x170	15000	3	15000	240	220V/50Hz	5.50
M-K-Oz20	350x172x170	20000	4	20000	320	220V/50Hz	6.35
M-K-Oz25	620x172x210	25000	5	25000	400	220V/50Hz	8.20
M-K-Oz30	620x172x210	30000	6	30000	480	220V/50Hz	9.10
M-K-Oz35	620x172x210	35000	7	35000	560	220V/50Hz	9.90
M-K-Oz40	620x172x210	40000	8	40000	640	220V/50Hz	10.80
M-K-Oz45	620x172x210	45000	9	45000	720	220V/50Hz	11.60
M-K-Oz40	620x172x210	50000	10	50000	800	220V/50Hz	12.70

Remarks: 1. Tolerance of dimension is ± 3mm.
2. Other dimensions are available upon request.

Kitchen Exhaust System
Coil Filter
M-KCCF



Product Specifications

Product Model	Actual Dimension	Volume Flow Rate	Air Volume	Weight	Pressure Drop	Material
	(mm, WxHxD)	(m³/s)	(m³/h)	(kg)	(Pa)	
M-KCCF-01	375x150x161	Up to 0.24 m³/s	865	3.65	200	SUS304
M-KCCF-02	475x150x161	Up to 0.34 m³/s	1,225	4.65	200	SUS304

Kitchen Exhaust System
UV Odor Removal unit
UV-KE



Product Specifications

Product Model	Housing Dimension	UV Lamp Quantity	Weight	Power
	(mm, WxHxD)		(Kg)	(W)
UV-KE-01	499x534x174	2	12	72
UV-KE-02	959x534x174	4	20	144
UV-KE-03	1419x534x174	6	28	216
UV-KE-04	1879x534x174	8	36	288
UV-KE-01	2339x534x174	10	43	360

Kitchen Exhaust System
Cleansaust Electronic Air Cleaner
EAC-KE



Product Specifications

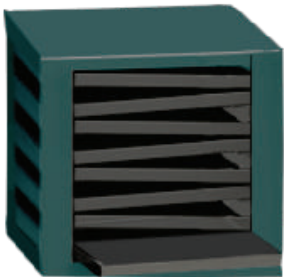
Product Model	Actual Dimension	Air Volume	Efficiency	Initial Pressure Drop	Power Consumption	Voltage	Weight
	(mm)	(m³/h)	(%)	(Pa)	(Watt)	(V/Hz)	(kg)
	WxHxD						
EAC-KE-01	630x540x550	3100	<90	≤70	30	220V/50Hz	55
EAC-KE-02	1090x540x550	6200	<90	≤70	50	220V/50Hz	90
EAC-KE-03	1550x540x550	9300	<90	≤70	80	220V/50Hz	130
EAC-KE-04	2010x540x550	12400	<90	≤70	100	220V/50Hz	160
EAC-KE-05	2470x540x550	15500	<90	≤70	150	220V/50Hz	200

Remarks: 1. Tolerance of dimension is ± 3mm.
2. Other dimensions are available upon request.
3. Above data based on MERV13 efficiency.

Applications

- Commercial Building
- Food Processing Industry
- General

Optional Add-On Specification

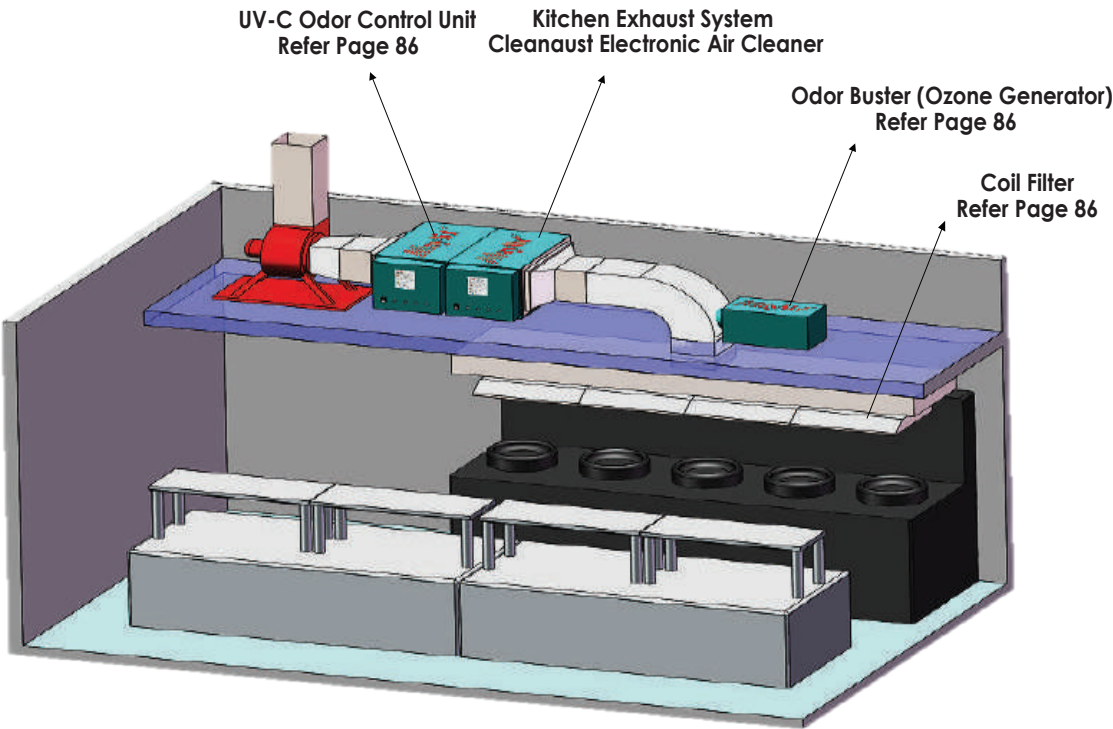


Product Model	Housing Dimension	Carbon Tray Quantity	Carbon Tray Dimension	Air Volume
	(mm, WxHxD)		(mm, WxHxD)	(CMH)
M-KCF-01	499x534x900	10	510x835x20	3100
M-KCF-02	959x534x900	20	485x835x20	6200
M-KCF-03	1440x534x900	30	475x835x20	9300

Product Features

- Operating Conditions**
Continuous operating temperature: Max 200°C
Continuous relative humidity: ≤100 (%RH)
- Efficiency**
MERV13,14,15
- Indicators**
Operation, cleaning and malfunction indicators
- Long Service Life**
Up to 10 years
- Low Power Consumption**
- Low Initial Pressure Drop**

Structure Layout



Germicidal Air Purifier
(Electrostatic Type)
D-Breath Series



Applications

- Commercial Building
- Healthcare & Hospital
- General

Product Features

- Structure/Arrangement**
Filter arrangement: Pre-filter, electrostatic air cleaner, chemical filter
- Efficiency**
PM2.5 purification efficiency: 99.9%
Clean Air Output Ratio (CADR): 510.66m³/h
- Low Energy Consumption**
- Low Noise Level**
- Anti-bacterial Or Anti-fungal Growth**

Product Specifications (Ceiling-mounted Type)

Product Name	Units	EP-CAP-ST		
Model		PM2.5 type		
Panel Dimension (WxHxD)	mm	650x650		
Casing		1.0mm SPCC (Pearl-white)		
Speed		High	Medium	Low
Air Volume	m3/h	500	400	300
Noise Level	dB(A)	<50	<50	<50
Power Consumption	W	80	68	58
Power Input		1PH / 220V / 50Hz		
Configuration		Pre-filter, Electrostatic air filter		
Controller		Remote control, Wall-mount control, Intelligent control		

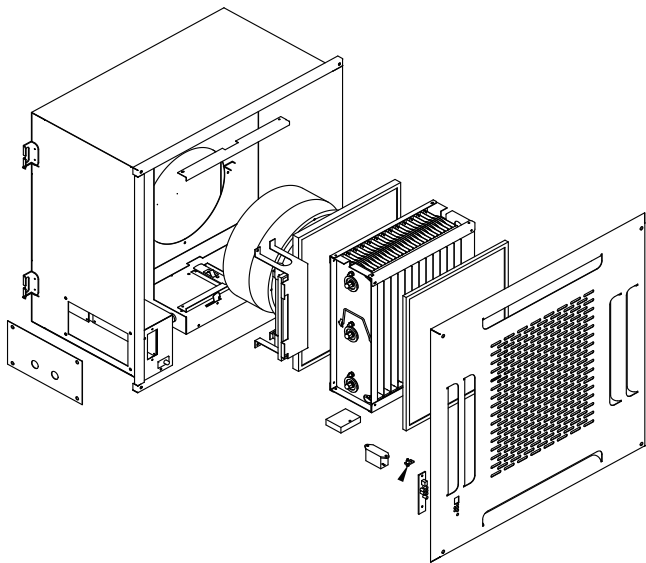
Remarks: 1. The parameters are subjected to change without prior notice.

Product Specifications (Ceiling-mounted Type)

Product Name	Units	D-Breath4.2		
Model		Compound type		
Panel Dimension (WxHxD)	mm	680x680		
Casing		1.0mm SPCC (Pearl-white)		
Speed		High	Medium	Low
Air Volume	m3/h	500	400	200
Noise Level	dB(A)	<50	<50	<50
Power Consumption	W	90	85	80
Power Input		1PH / 220V / 50Hz		
Configuration		Pre-filter, Electrostatic filter, Chemical filter, UV light, Nano-photocatalytic, Ionization		
Controller		Remote control, Wall-mount control, Intelligent control		

Remarks: 1. The parameters are subjected to change without prior notice.

Structure Layout



Germicidal Air Purifier
(Mechanical Type)
D-Breath 4.1



Product Specifications (Ceiling-mounted Type)

Product Name	Units	D-Breath 4.1					
Dimension (WxHxD)	mm	850x850x300			650x650x300		
Colour		Pearl-White			Pearl-White		
Speed		High	Medium	Low	High	Medium	Low
Air Volume	m³/h	1000	500	300	800	500	350
Noise Level	dB(A)	52	43	32	50	43	35
Power Consumption	W	69	49	25	56	40	24
Power Input		1PH / 220V / 50Hz					
Casing Material		Galvalume					
Controller		Remote control, Touch Panel, Group control system					

Remarks: 1. The parameters are subjected to change without prior notice.

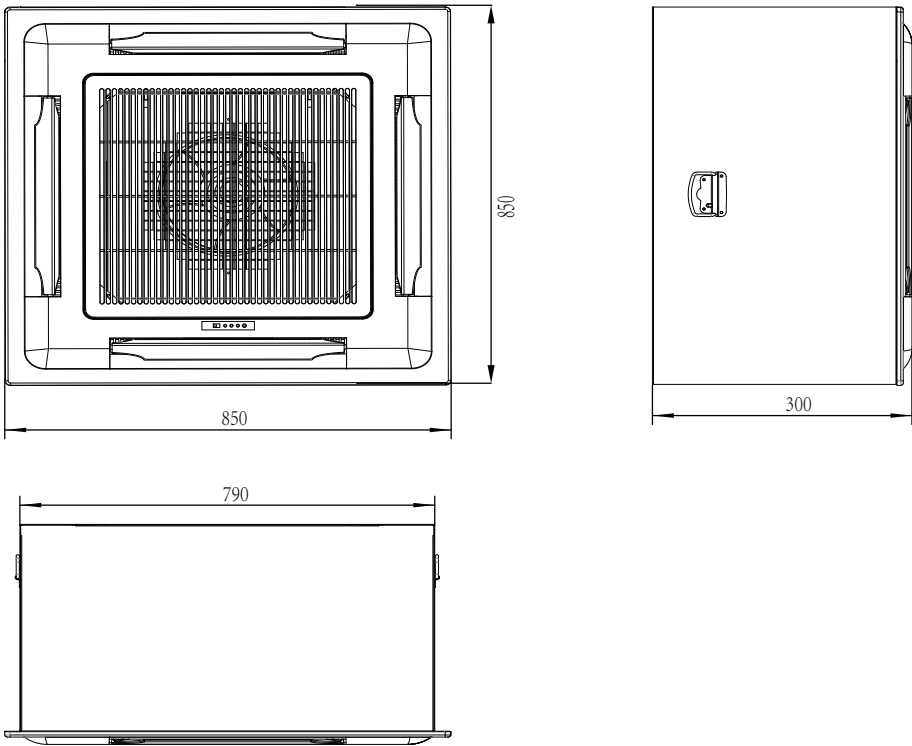
Applications

- Commercial Building
- Healthcare & Hospital
- General

Product Features

- Structure/Arrangement**
Filter arrangement: Pre-filter, HEPA filter, chemical filter
- Efficiency**
PM2.5 purification efficiency: 99% (30m³, 20mins)
- Low Energy Consumption**
- Low Noise Level**
- Anti-bacterial Or Anti-fungal Growth**

Structure Layout



Germicidal Air Purifier

D-Breath 5



Applications



Commercial Building



Healthcare & Hospital



General

Product Features

Structure/Arrangement

Filter arrangement: Pre-filter, germicidal HEPA filter, formaldehyde VOC air filter



Efficiency

PM2.5 purification efficiency: 99.90%
Formaldehyde removal efficiency: 99%
Sterilization efficiency (Staphylococcus albus): 99.89%
Clean Air Output Ratio (CADR): 1160m³/h



Low Energy Consumption



Low Noise Level



Anti-bacterial Or Anti-fungal Growth



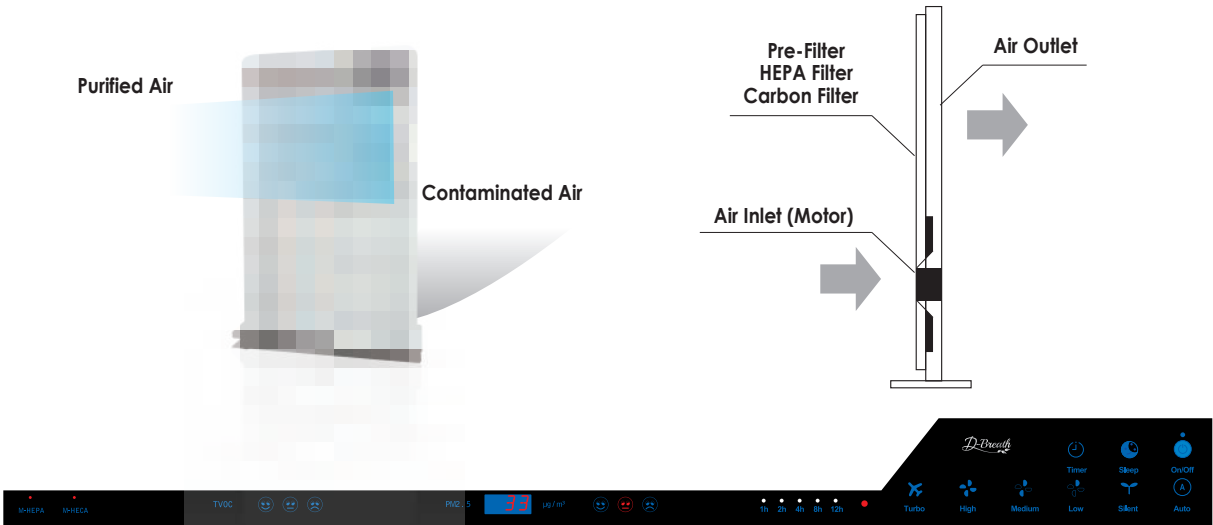
Product Specifications (Stand Alone Type)

Product Name	Units	D-Breath 5		
Casing Material		Powder Coated Steel Alloy		
Dimension (WxHxD)	mm	1010x1585x170		
Colour		Pearl-White / Champagne-Gold		
Weight		85		
Display Panel		3 control mode		
Speed		High	Medium	Low
Air Volume	m³/h	1500	670	240
Noise Level	dB(A)	60	45	35
Power Consumption	W	206	40	15
Power Input		1PH / 220V / 50Hz		
Recommended Area Served	m²	120		
Filtration Cycle / Hour		5 times		
Controller		Touch panel		

Product Specifications (Stand Alone Type)

Product Name	Units	D-Breath 5 Plus				
Casing Material		Powder Coated Steel Alloy				
Dimension (WxHxD)	mm	1010x1585x170				
Colour		Pearl-White/ Champagne-Gold				
Weight		85				
Display Panel		PM2.5, TVOC, Filter replacement, Fan mode, Automatic/manual mode, Timing				
Speed		Sleep	Low	Medium	High	Turbo
Air Volume	m³/h	200	335	670	1210	1500
Noise Level	dB(A)	32	39	47	56	61
Power Consumption	W	15	18	41	123.5	206
Power Input		1PH / 220V / 50Hz				
Recommended Area Served	m²	120				
Filtration Cycle / Hour		5 times				
Controller		Touch panel, Infrared Red remote control				

Structure Layout

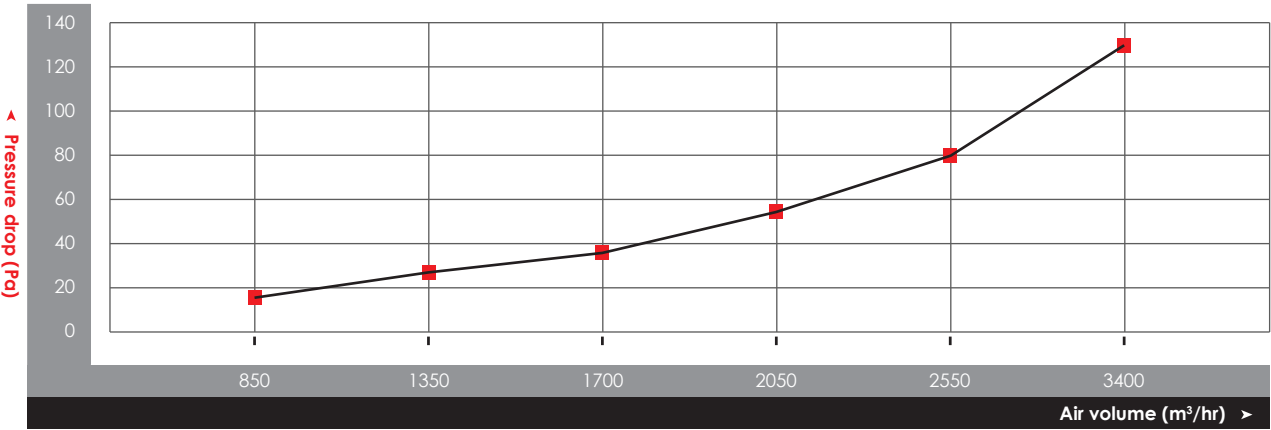


Carbon Filter

Odourfil-D



Graph Of Initial Pressure Drop Versus Air Volume



Applications



Commercial Building

Product Features

Operating Conditions

Temperature: 0~40°C
Relative humidity: < 70(%RH)



Frame

Material: Beverage board



Filter Type

Disposable



Sealant

Material: Hot melt glue



Product Specifications

Nominal Dimension	Actual Dimension	Pleats	Media Area	AC Weight	Air Flow	Resistance
(inch)	(mm)	(Pleats Number)	(m²)	(kg)	(m³/hr)	(Pa)
WxHxD	WxHxD					
24x24x2	594x594x46	20	2.1	0.63	3400	137
12x24x2	289x594x46	10	1.1	0.33	1700	137
24x24x4	594x594x95	20	3.8	1.14	3400	127
12x24x4	289x594x95	10	1.8	0.54	1700	127

Remarks: 1) AC = Activated Carbon
2) Actual dimension may have slight variation depending on frame material.
3) Gas removal efficiency >= 90%

Carbon Filter

Odourfil-R



Applications



Commercial Building

Product Features

Operating Conditions

Temperature: 0~40°C
Relative humidity: < 70(%RH)



Frame

Material: ABS plastic / galvanised steel



Filter Type

Box

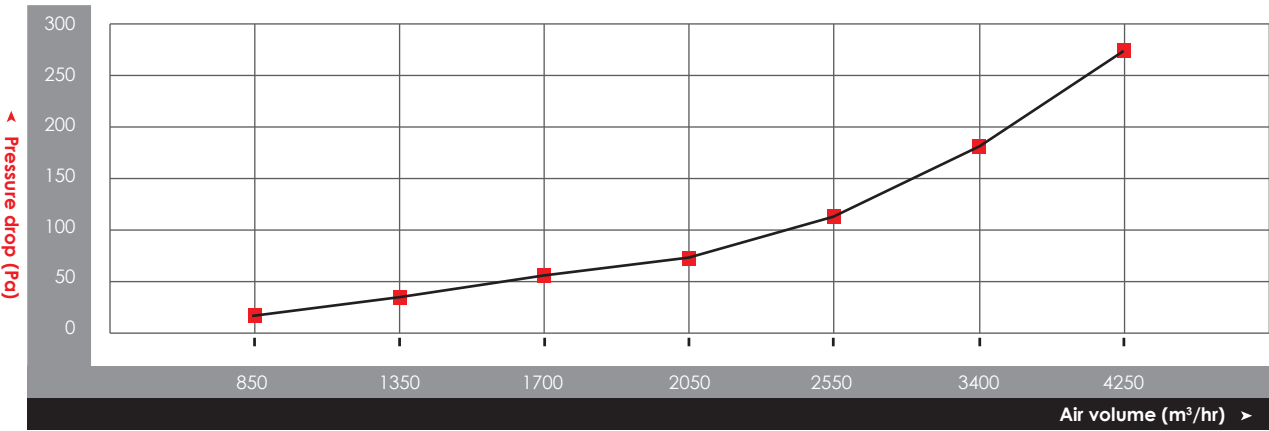


Sealant

Material: Polyurethane



Graph Of Initial Pressure Drop Versus Air Volume



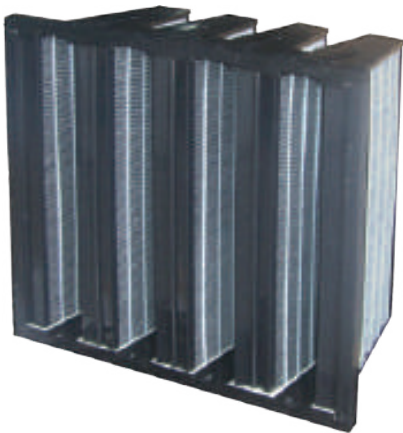
Product Specifications

Nominal Dimension	Actual Dimension	Media Area	AC Weight	Air Flow	Resistance
(inch)	(mm)	(m²)	(kg)	(m³/hr)	(Pa)
WxHxD	WxHxD				
24x24x12	594x594x292	10.7	10	3400	180
12x24x12	289x594x292	5.2	5	1700	180

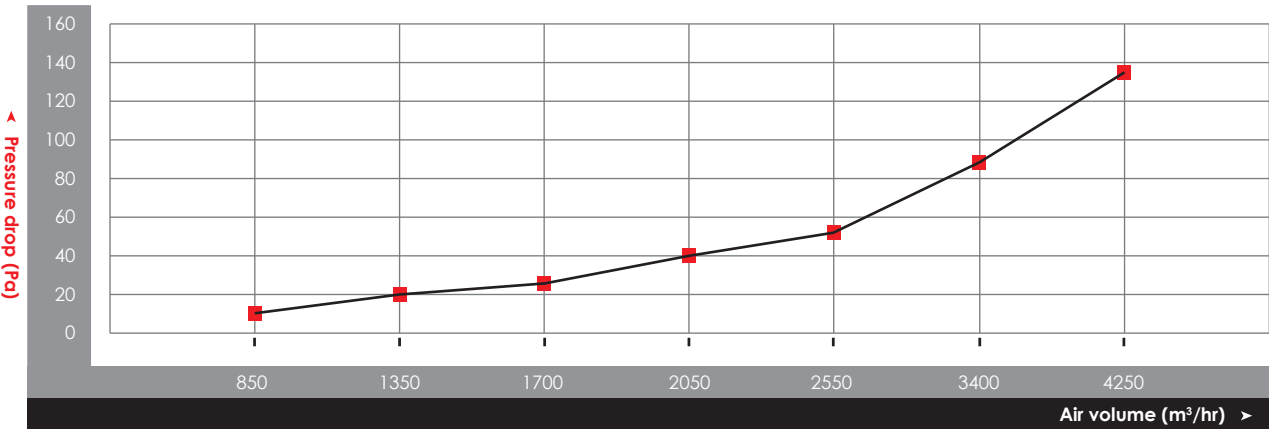
Remarks: 1) AC = Activated Carbon
2) 150mm thickness is available for Odourfil-R.
3) Filter available in non-flange and single-flange.
4) Actual dimension may have slight variation on frame material and flange.
5) Gas removal efficiency >=90%

Carbon Filter

Odourfil-V



Graph Of Initial Pressure Drop Versus Air Volume



Applications



Commercial Building

Product Features

Operating Conditions

Temperature: 0~40°C
Relative humidity: < 70(%RH)



Frame

Material: ABS plastic



Filter Type

V-shaped



Sealant

Material: Polyurethane



Product Specifications

Nominal Dimension	Actual Dimension	Media Area	AC Weight	Air Flow	Resistance
(inch)	(mm)	(m²)	(kg)	(m³/hr)	(Pa)
WxHxD	(WxHxD)				
24x24x12	594x594x292	9.5	4.0	3400	90
24x20x12	594x490x292	8.0	3.5	2800	90
24x12x12	594x289x292	4.5	2.0	1700	90

Remarks: 1) AC = Activated Carbon
2) Actual dimension may have slight variation on frame material and flange.
3) Gas removal efficiency >=90%.



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