MayAir®

Product Catalogue

2015 - 2016

Clean Air, Our Future

Content

World Health Organization, 25 MARCH 2014

7 million premature deaths annually linked to air pollution.

Our research and development efforts focus on creating technologies that will effectively remove air pollutants swiftly. As a result, we have emerged as the preferred choice to provide air quality solutions for industrial clean rooms 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 environments such as biological cleanrooms and operation theatres in hospitals.

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 customers – to combat air pollutants and create a healthier environment for them.

Combating Air Pollutants, Purifying And Changing

The Environment For A Better Future

MayAir Group, the public listed company in London Stock Exchange (LSE) 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 breathroughs, MayAir stands proven as a dependable producer and developer of highly effective air filtration equipment and clean air solutions.

Our mission – to deliver clean, 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 are central to our client servicing strategy.

Excellence

From inception to delivery, there is only one prevailing attitude – Excellence.

Innovation

We continually challenge ourselves to explore new and better ways to deliver the best-fit products and solutions so that our customers can realise their vision. We believe that innovation will position us ahead in the market.

Commitment

We are passionate about providing the best products and solutions to our customers. Our priority is to serve our customers and help them purify their environment to improve their quality of life.

Reliability

We will deliver what we promise to our customers in our ultimate mission to find efficient solutions to help them find the best remedy to combat air pollution.

Customer satisfaction

Every customer is treated with respect. Meeting their needs remain our highest priority. At MayAir we work to understand each need, recommend the best solution, and ensure fulfilment of requirements.

Commitment

There is one common goal in MayAir – to establish MayAir as a respected leader in the clean air solutions industry. Every employee is an important member of our team where accountability, integrity and unity are non-negotiable standards.

Standards Comparisons Chart

Power Input: 1Φ 220V - 240V 50Hz

U.S. STANDARDS						EUROPEAN STANDARDS			Applications
Air Filter Standards	ASHRAE 2.2	Particle Size Range			Test: Aerosol - DEHS	EN779	1822	EUROVENT 4/5 & 4/4	
		3-10um	1-3um	0.3-1um					
PRIMARY FILTER	MERV 1	<20%			Average Arrestance of synthetic dust	G 1	<65%	EU 1	Gross filter, domestic and commercial
	MERV 2	<20%				G 2	65-80%	EU 2	
	MERV 3	<20%							
	MERV 4	<20%							
	MERV 5	20-35%				G 3	80-90%	EU 3	Commercial, industrial, paint shop
	MERV 6	35-50%							
	MERV 7	50-70%				G 4	>90%	EU 4	
	MERV 8	70-85%							
SECONDARY FILTER	MERV 9	>85%	<50%		Average Efficiency of 0.4um particles	M 5	40-60%	EU 5	IAQ concerned commercial, industrial, medical
	MERV 10	>85%	50-65%						
	MERV 11	>85%	65-80%			M 6	60-80%	EU 6	
	MERV 12	>90%	80-90%						
	MERV 13	>90%	>90%	<75%		F 7	80-90%	EU 7	IAQ concerned commercial, industrial, medical, food etc.
	MERV 14	>90%	>90%	75-85%		F 8	90-95%	EU 8	
	MERV 15	>90%	>90%	85-95%		F 9	>95%	EU 9	
	MERV 16	>95%	>95%	95-99.97%					
EPA FILTER					Most Penetrating Particle Size	E 10	85%	EU 10	
						E 11	95%		All types of cleanrooms
						E 12	99.5%		
								EU 11	
HEPA FILTER						H 13	99.95%		
								EU 12	
								EU 13	
						H 14	99.995%		
ULPA FILTER								EU 14	
						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. ASRHAE collaborated with American National Standard Institude (ANSI) in 1992 to create ASHRAE-ANSI 52.1. Finally updated to ASHRAE 52.2 in 2007.

EUROVENT 4/4 and 4/5

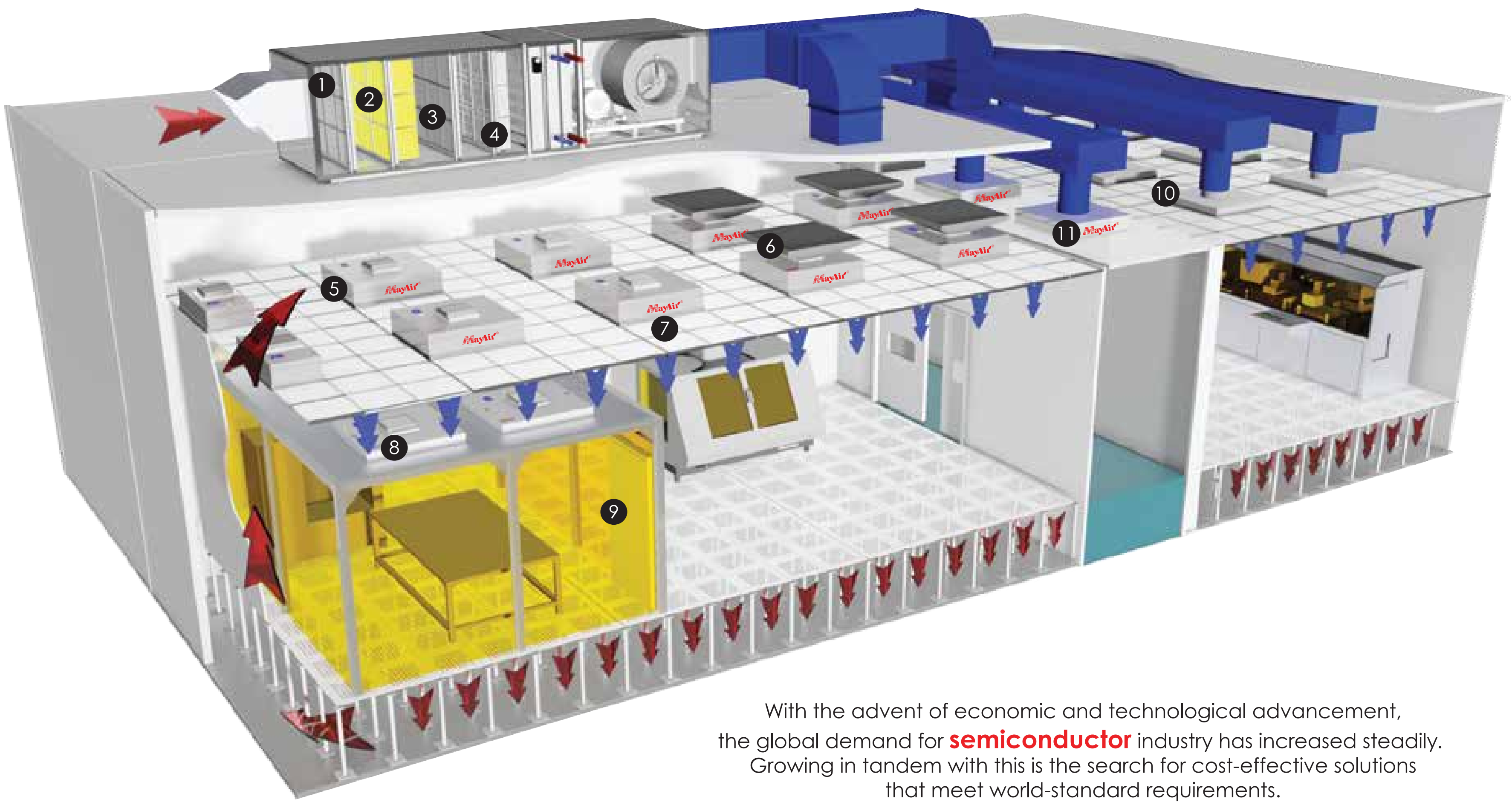
Eurovent 4/5 was established in 1974 by modifying existing ASHRAE 52-68 to suit the applicationS in Europe. Eurovent 4/5 is catered for primary and secondary filter while Eurovent 4/4 is catered for high efficiency filters.

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.

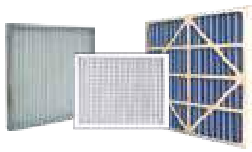
EN 1882

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).



With the advent of economic and technological advancement,
the global demand for **semiconductor** industry has increased steadily.
Growing in tandem with this is the search for cost-effective solutions
that meet world-standard requirements.

Recommended range of products:

1

Primary Filter
pg 14

2

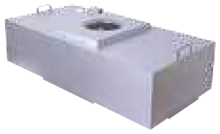
Secondary Filter
pg 18

3

Carbon Filter
pg 88

4

HEPA/ ULPA Filter
pg 25

5

Fan Filter Unit
pg 52

6

Chemical Filter
pg 44

7

HEPA/ ULPA Filter
pg 25

8

Equipment Filter Unit
contact MayAir
for product specifications

9

Clean Booth
pg 70

10

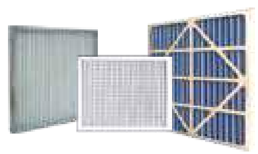
HEPA-BOX
pg 67

11

Celling Module
pg 64

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:

1

Primary Filter
pg 14

2

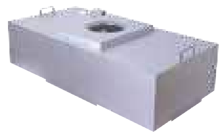
Secondary Filter
pg 18

3

Carbon Filter
pg 88

4

Celling Module
pg 64

5

Equipment Filter Unit
contact MayAir
for product specifications

6

Fan Filter Unit
pg 52

7

Laminar Flow Hood
pg 68

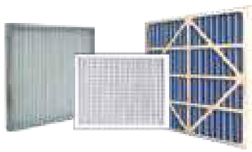
8

Bag-In-Bag-Out
pg 65

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 18

3

Carbon Filter
pg 88

4

HEPA/ ULPA Filter
pg 25

5

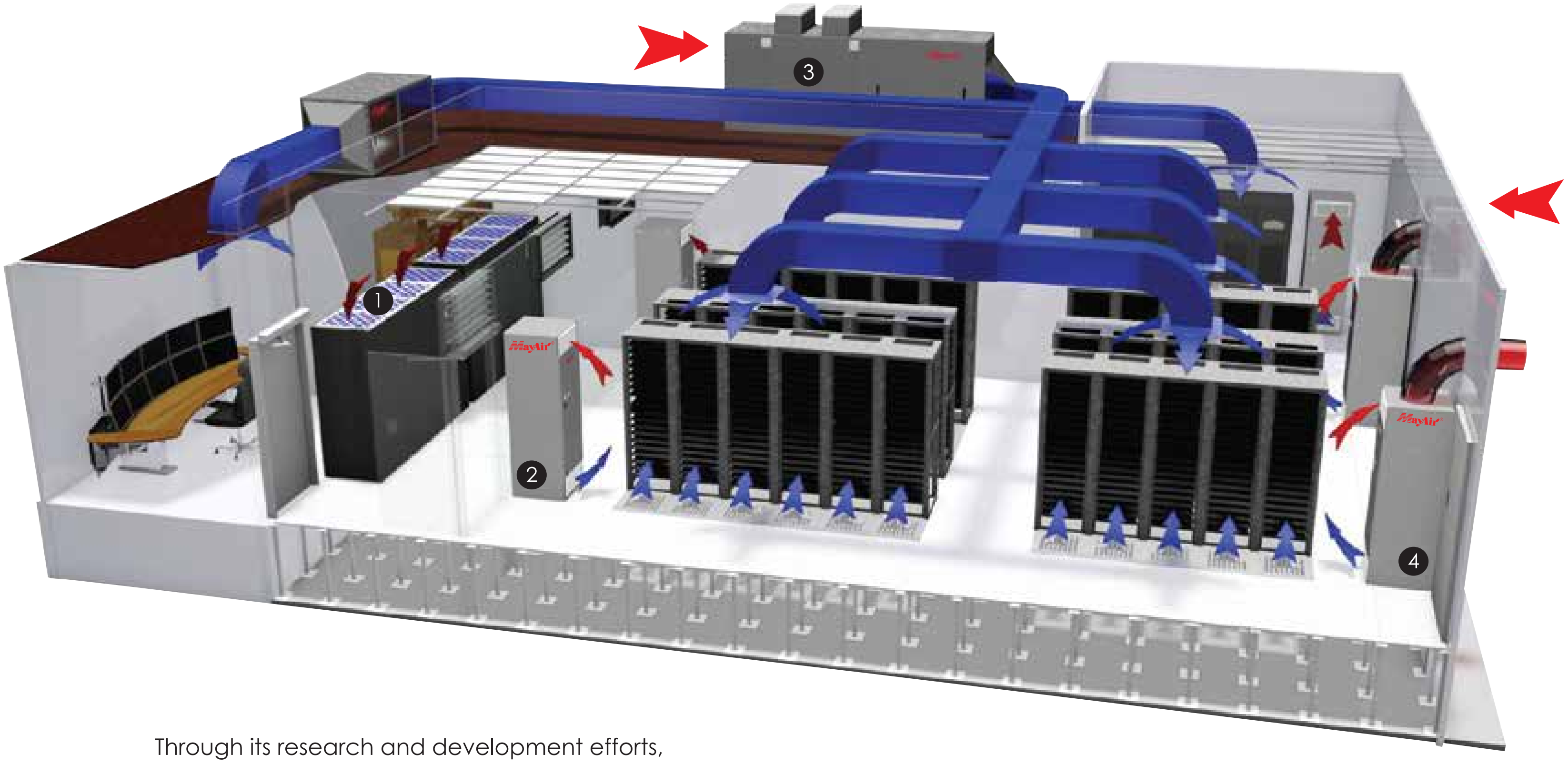
Fan Filter Unit/
Equipment Filter Unit
pg 52

6

Celling Module
pg 64

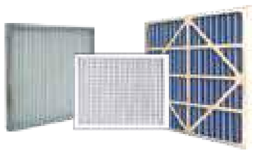
7

HEPA/ ULPA Filter
pg 25



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

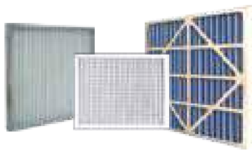

Chemical Filter
pg 44

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:

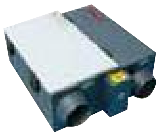
1

Primary Filter
pg 14

2

Electronic Air Cleaner
pg 71

3

Secondary Filter
pg 18

4

Fresh Air System
pg 80

5

Wall-mounted Air Purifier
pg 84

6

Online Monitoring System
pg 83

7

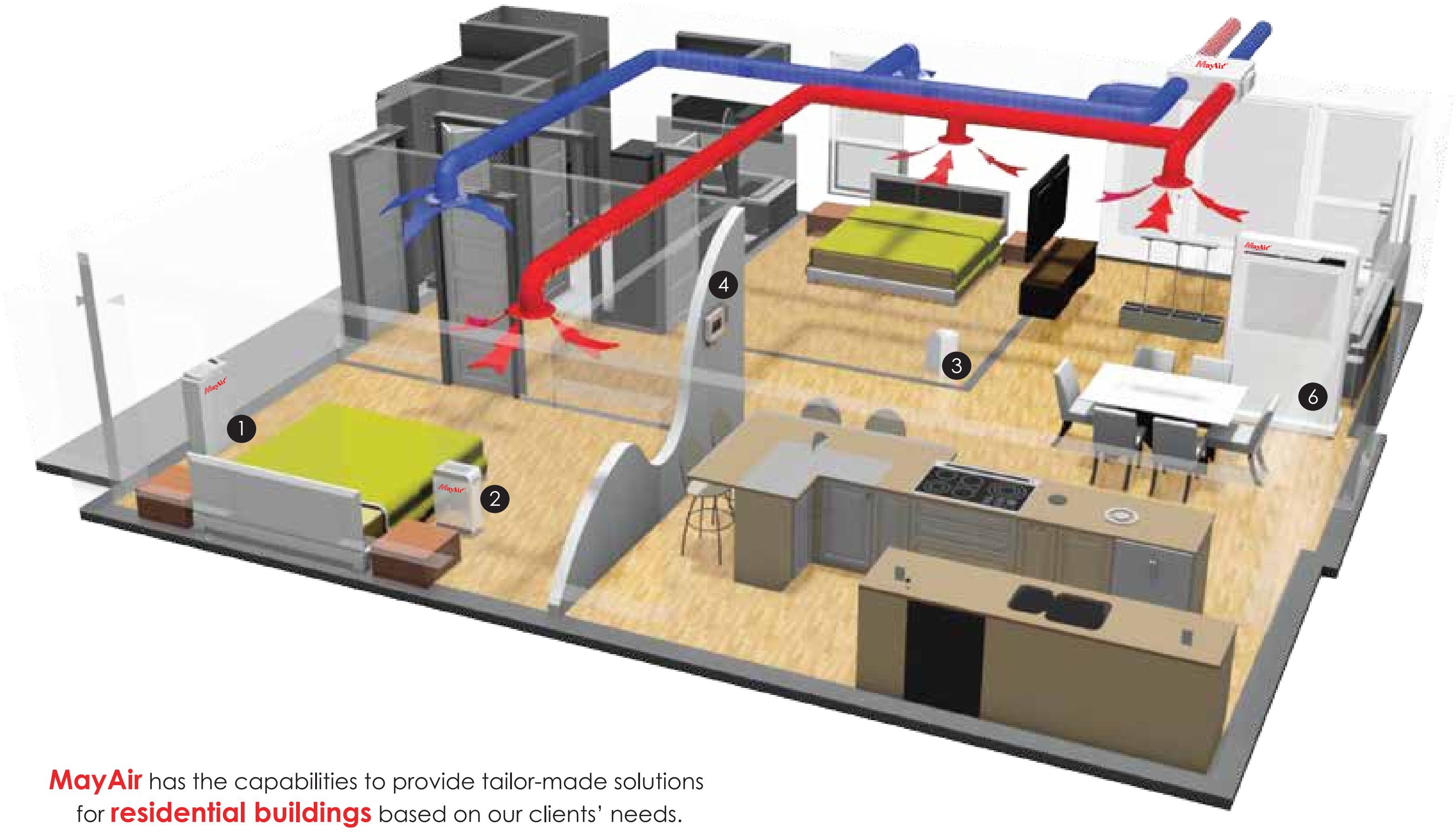
Intelligent Fresh Air System
pg 87

8

Germicidal Air Purifier
pg 85

9

Germicidal Air Purifier
contact MayAir
for product specifications



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

Recommended range of products:

❶ 

Intelligent Fresh Air System
pg 87

❷ 

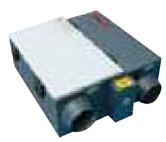
Residential Air Purifier
contact MayAir
for product specifications

❸ 

Residential Air Purifier
contact MayAir
for product specifications

❹ 

Online Monitoring System
pg 83

❺ 

Fresh Air System
pg 80

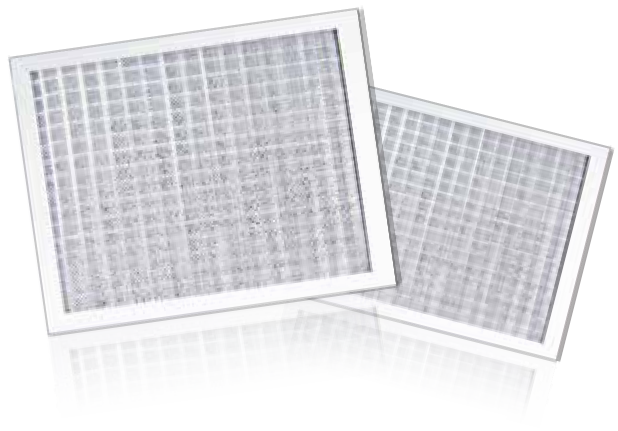
❻ 

Germicidal Air Purifier
pg 85

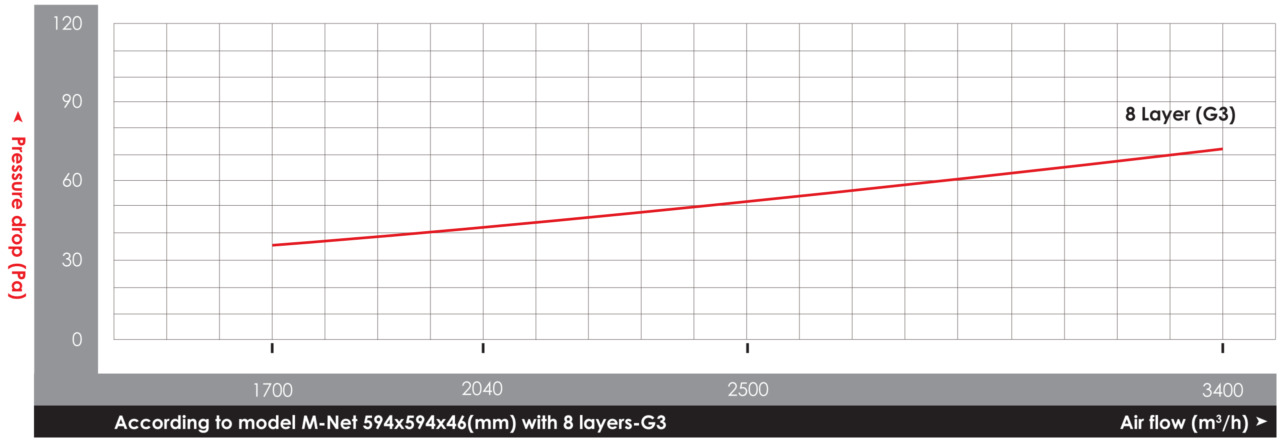
Notes

Metal Mesh Filter

M-NET



Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Commercial Building
- Industrial
- General

Product Specifications

Dimension	Air Flow	Initial Pressure Drop		Final Pressure Drop	
(mm)	(m^3/h)	(Pa)		(Pa)	
WxHxD		G2	G3	G2	G3
289x594x21	1700	44	-	180	
594x594x21	3400	44	-	180	
289x594x46	1700	-	70	-	200
594x594x46	3400	-	70	-	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.

Product Features

Operating Conditions

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

Frame

Material: Extruded aluminium / galvanised steel / stainless steel
Thickness: 10mm, 21mm, 46mm, 96mm

Media

Material: Aluminium mesh

Corrosion-free

High-strength aluminium mesh

Efficiency (EN779:2012)

G2, G3

High Temperature Resistant

High-strength aluminium mesh

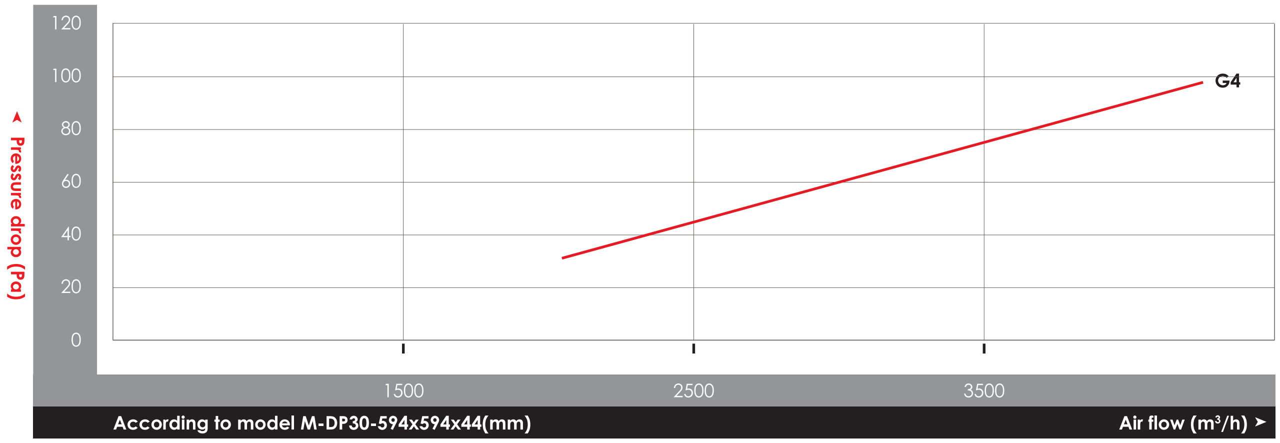
Washable

Washable aluminium mesh

Disposable Panel Filter

M-DP

Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Commercial Building
- Industrial
- General

Technical Data

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

Remarks: Initial pressure drop difference is ± 10%

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 and synthetic fiber with metal wire mesh

Efficiency (EN779:2012)

G4

Disposable

Light Weight

Low Initial Pressure Drop

Product Specifications

Nominal Dimension (inch)	Actual Dimension (mm)	Air Flow (m³/h) Face Velocity (m/s)			M-DP30 Pleated Number	M-DP30 Media Area	M-DP20 Pleated Number	M-DP20 Media Area	M-DP10 Pleated Number	M-DP10 Media Area
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	1.52
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	23	2.59	17	1.91	12	1.53
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: 12mm, 21mm, 46mm, 96mm

Media

Material: Polyester fiber

Efficiency (EN779:2012)

G2, G3, G4

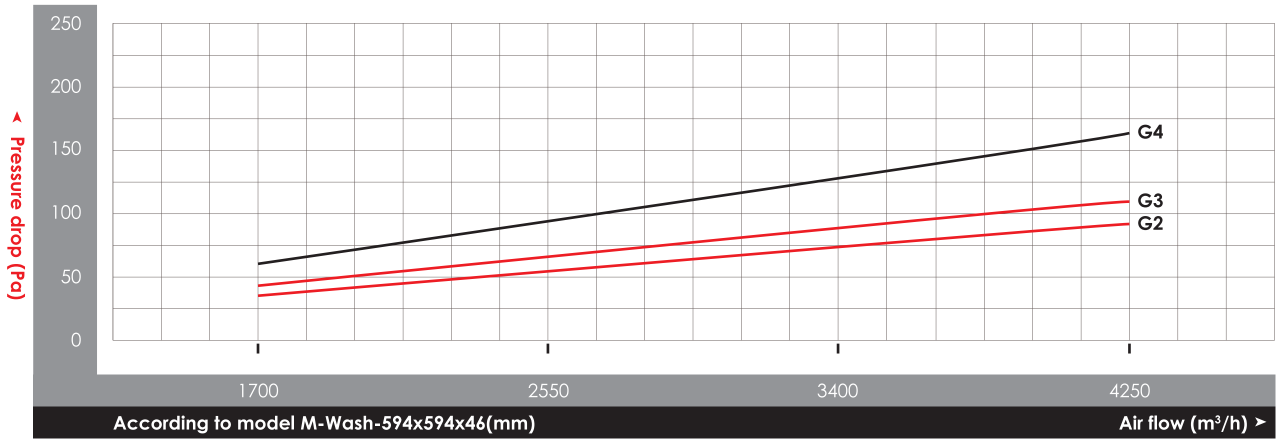
High Dust Holding Capacity

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	(m^3/h)	(Pa)		
WxHxD	WxHxD			1.78m/s	2.54m/s	3.18m/s
24x12x2	594x289x46	G2	1700	45	70	100
24x20x2	594x492x46	G2	2800	45	70	100
24x24x2	594x594x46	G2	3400	45	70	100
24x12x2	594x289x46	G3	1700	65	95	135
24x20x2	594x492x46	G3	2800	65	95	135
24x24x2	594x594x46	G3	3400	65	95	135
24x12x2	594x289x46	G4	1700	85	130	175
24x20x2	594x492x46	G4	2800	85	130	175
24x24x2	594x594x46	G4	3400	85	130	175

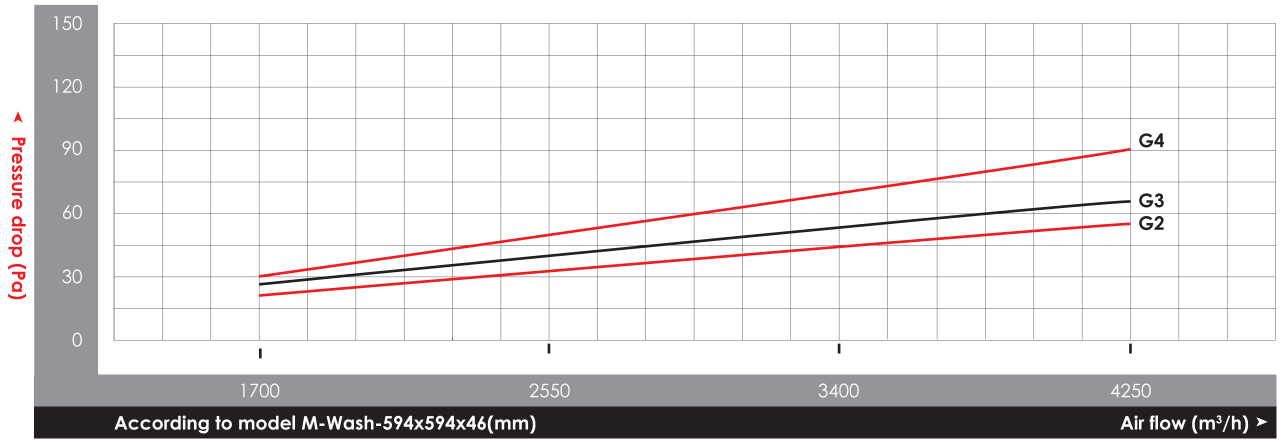
Remarks:
1. Tolerance of initial pressure drop is ± 10%.
2. Recommended final pressure drop is 250Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.

Clean Air • Our Future
www.mayairgroup.com
MayAir®

Washable Panel Filter (Wire Mesh)

M-WASH

Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Cleanroom
- General
- Commercial Building
- Industrial

Product Features

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

Frame
Material: Aluminium
Thickness: 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)

Product Specifications

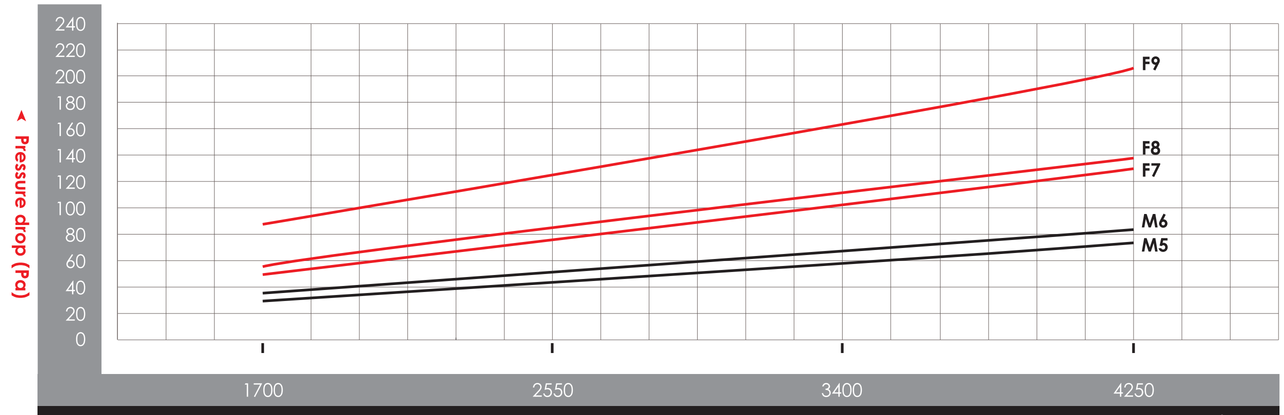
Nominal Dimension	Actual Dimension	Efficiency	Air Flow	Initial Pressure Drop		
(inch)	(mm)	EN779	(m^3/h)	(Pa)		
WxHxD	WxHxD			1.78m/s	2.54m/s	3.18m/s
24x12x2	594x289x46	G2	1700	25	40	55
24x20x2	594x492x46	G2	2800	25	40	55
24x24x2	594x594x46	G2	3400	25	40	55
24x12x2	594x289x46	G3	1700	35	55	70
24x20x2	594x492x46	G3	2800	35	55	70
24x24x2	594x594x46	G3	3400	35	55	70
24x12x2	594x289x46	G4	1700	45	70	95
24x20x2	594x492x46	G4	2800	45	70	95
24x24x2	594x594x46	G4	3400	45	70	95

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.

Pocket Filter

M-PACK

Graph Of Initial Pressure Drop Versus Air Flow



According to model M-Pack-594x594x550(mm) with 8 pockets

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 into a frame to form a rigid structure.

Frame
Material: Aluminium / galvanised steel
Thickness: 21mm, 46mm

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

Product Specifications

Nominal Dimension	Actual Dimension	Pocket	Media Area	Air Flow	Initial Pressure Drop at 2.54m/s				
(inch)	(mm)		(m^2)	(m^3/h)	(Pa)				
WxHxD	WxHxD				M5	M6	F7	F8	F9
24x24x25	594x594x635	8	6.60	3400	55	58	90	95	155
20x24x25	492x594x635	6	4.94	2850	55	58	90	95	155
20x20x25	492x492x635	5	3.50	2300	55	58	90	95	155
12x24x25	289x594x635	4	3.30	1700	55	58	90	95	155
24x24x22	594x594x550	8	5.68	3400	60	65	105	110	165
20x24x22	492x594x550	6	4.26	2850	60	65	105	110	165
20x20x22	492x492x550	5	3.02	2300	60	65	105	110	165
12x24x22	289x594x550	4	2.84	1700	60	65	105	110	165
24x24x15	594x594x381	8	3.86	3400	70	75	125	130	200
20x24x15	492x594x381	6	2.90	2850	70	75	125	130	200
20x20x15	492x492x381	5	2.06	2300	70	75	125	130	200
12x24x15	289x594x381	4	1.94	1700	70	75	125	130	200

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.

Glass Fibre Pocket Filter

M-PACK

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: 21mm, 46mm

Media

Material: Fiber glass
Highlight: Ultrasonic sealed pockets

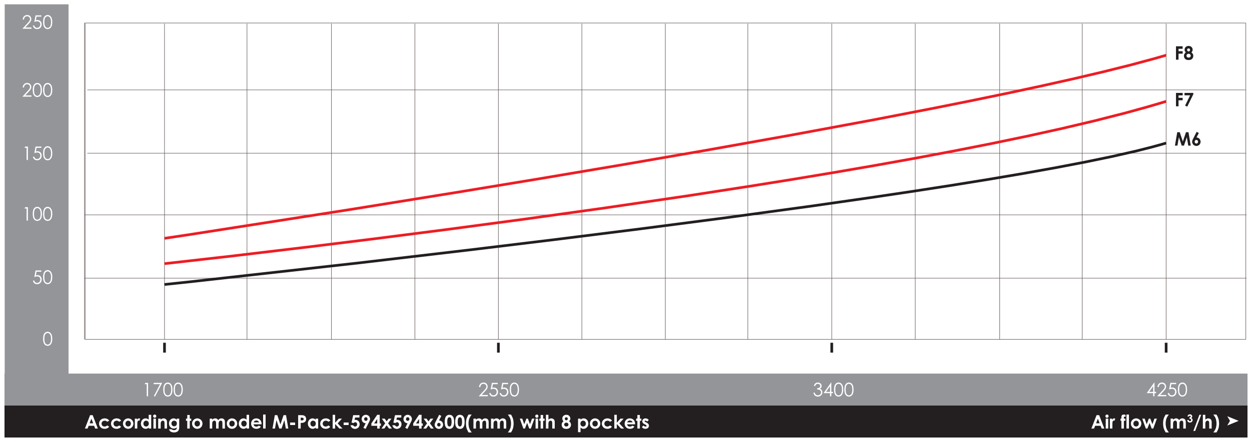
Efficiency (EN779:2012)

M6, F7, F8

High Dust Holding Capacity

Long Service Life

Graph Of Initial Pressure Drop Versus Air Flow



Product Specifications

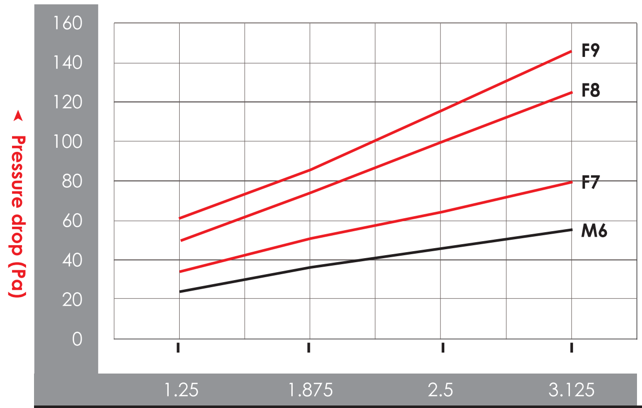
Actual Dimension	Pocket Number	Media Area	Efficiency	Air Flow	Initial Pressure Drop			
(mm)		(m^2)	(EN779:2012)	(m^3/h)	(Pa)			
WxHxD					at 1.27m/s	at 1.78m/s	at 2.54m/s	at 3.18m/s
594x594x600	8	6	M6	3400	43	72	110	154
490x594x600	6	4.5		2800	43	72	110	154
289x594x600	4	3.1		1700	43	72	110	154
490x490x600	6	3.8		2380	43	72	110	154
594x594x600	8	6	F7	3400	58	93	138	191
490x594x600	6	4.5		2800	58	93	138	191
289x594x600	4	3.1		1700	58	93	138	191
490x490x600	6	3.8		2380	58	93	138	191
594x594x600	8	6	F8	3400	80	120	169	224
490x594x600	6	4.5		2800	80	120	169	224
289x594x600	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 450Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.
5. M-Pack with F9 efficiency is available upon request.

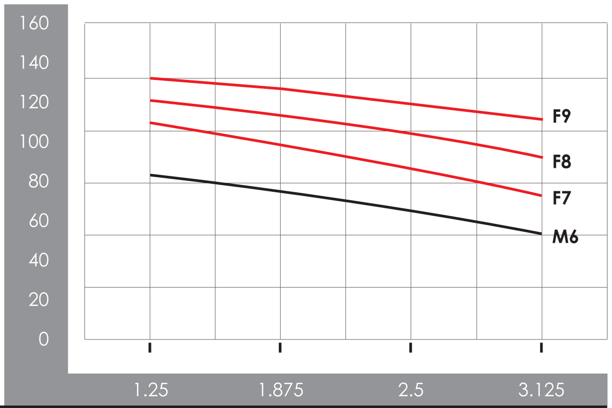
High Dust-Holding Pocket Filter

M-HPACK

Graph of Initial Pressure Drop versus Velocity



Graph of PM2.5 Efficiency versus Velocity



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

Face velocity (m/s)

Applications

- Cleanroom
- General
- Commercial Building
- Industrial

Product Features

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

Frame
Material: Extruded aluminium / galvanised steel / stainless steel
Thickness: 21mm, 46mm

Media
Material: Polyester

Efficiency (EN779:2012)
M6, F7, F8, F9

High Dust Holding Capacity

Long Service Life

Product Specifications

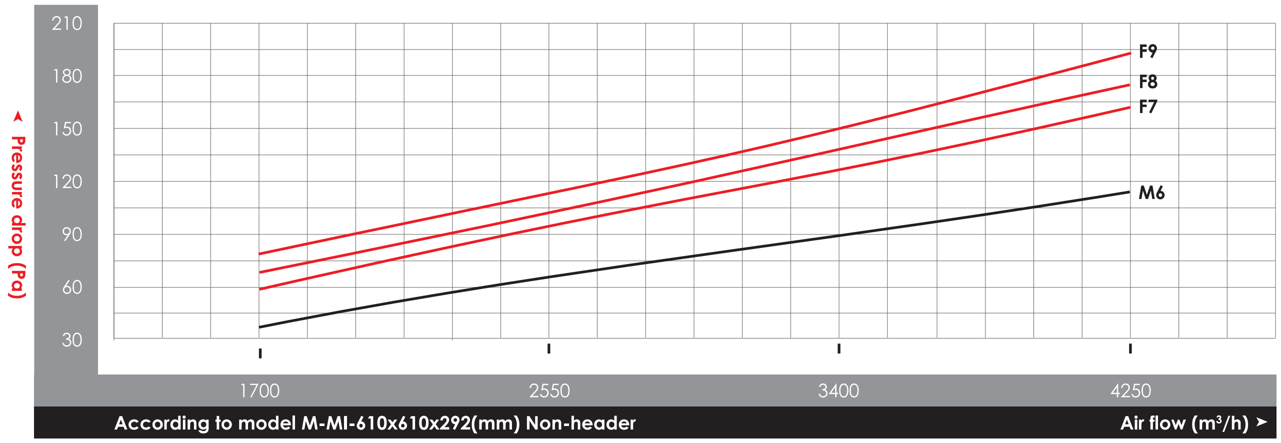
Nominal Dimension	Actual Dimension	Pocket Number	Media Area	Initial Pressure Drop at 2.54m/s			
(inch)	(mm)		(m²)	(Pa)			
WxHxD	WxHxD			M6	F7	F8	F9
24x24x22	594x594x550	7	5.16	45	65	100	115
20x24x22	492x594x550	6	4.42	45	65	100	115
20x20x22	490x490x550	6	3.76	45	65	100	115
12x24x22	289x594x550	3	2.21	45	65	100	115
24x24x15	594x594x381	7	3.57	55	85	125	145
20x24x15	490x594x381	6	3.06	55	85	125	145
20x20x15	490x490x381	6	2.61	55	85	125	145
12x24x15	289x594x381	3	1.53	55	85	125	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.

Medium Efficiency Filter with Separator

M-MI

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 / plywood
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)	(m^3/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	850	1.2	90	130	140	150
24x24x6	610x610x150	1700	1.2	90	130	140	150
12x24x9	305x610x220	1080	1.6	90	130	140	150
24x24x9	610x610x220	2160	1.6	90	130	140	150
12x24x12	305x610x292	1700	2.5	90	130	140	150
24x24x12	610x610x292	3400	2.5	90	130	140	150

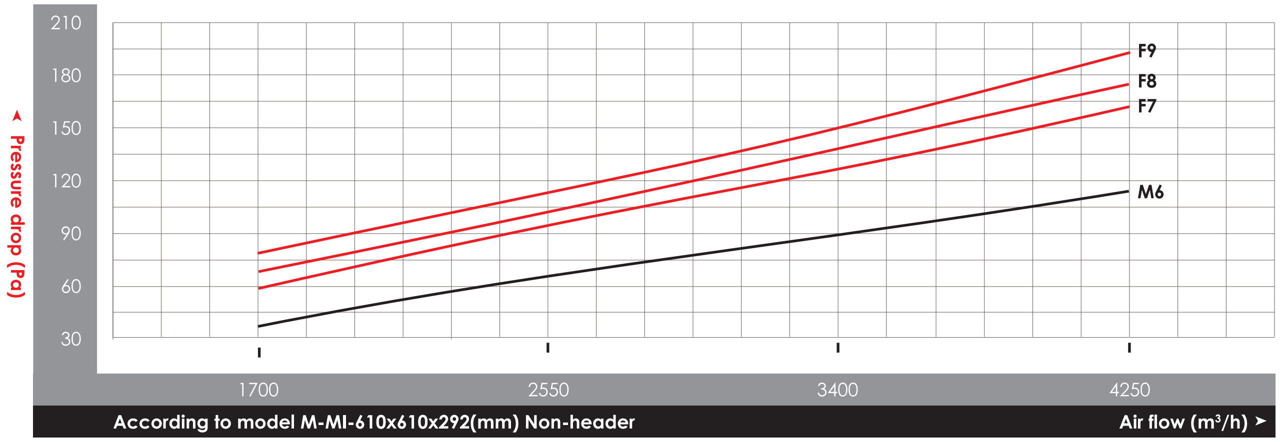
Remarks:
1. Tolerance of initial pressure drop is ±10%.
2. Recommended final pressure drop is 450Pa.
3. Tolerance of dimension is ±3mm.
4. Other dimensions are available upon request.

Secondary Filter

Medium Efficiency Filter with Separator (High Temperature Resistant)

M-MIH

Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Automotive
- Healthcare & Hospital
- Genaral

Product Specifications

Nominal Dimension	Actual Dimension	Air Flow	Face Velocity	Initial Pressure Drop			
(inch)	(mm)	(m^3/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	850	1.2	90	130	140	150
24x24x6	610x610x150	1700	1.2	90	130	140	150
12x24x9	305x610x220	1080	1.6	90	130	140	150
24x24x9	610x610x220	2160	1.6	90	130	140	150
12x24x12	305x610x292	1700	2.5	90	130	140	150
24x24x12	610x610x292	3400	2.5	90	130	140	150

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.

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 (EN779:2012)
M6, F7, F8, F9

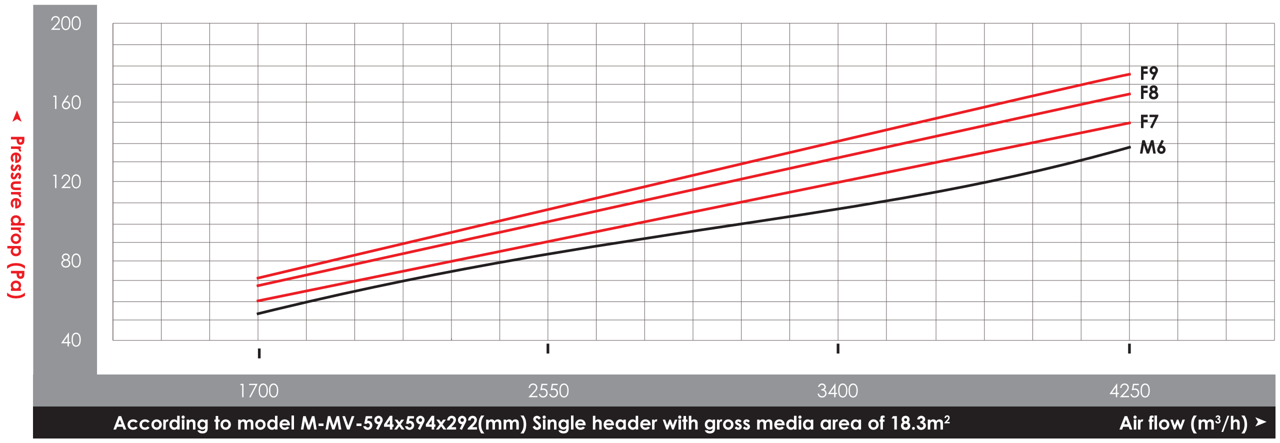
High Temperature Resistant

Separator
Material: Corrugated aluminium

Medium Efficiency V-Shaped Mini-Pleated Filter

M-MV

M-MV Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Cleanroom
- General
- Commercial Building
- Industrial

Product Specifications

Nominal Dimension	Actual Dimension	Gross Media Area	Header	Air Flow	Initial Pressure Drop			
(inch)	(mm)	(m^2)	(Non/Single/Double)	(m^3/h)	(Pa)			
WxHxD	WxHxD				M6	F7	F8	F9
12x24x12	289x594x292	9.2	Single Header	1600	110	120	130	140
24x12x12	594x289x292	8.9	Single Header	1600	110	120	130	140
24x20x12	594x492x292	15.2	Single Header	2700	110	120	130	140
24x24x12	594x594x292	18.3	Single Header	3200	110	120	130	140
12x24x12	305x610x292	9.4	Non Header	1700	110	120	130	140
24x24x12	610x610x292	18.8	Non Header	3400	110	120	130	140

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.

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. (thickness: 292mm)

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

Media
Material: Fiberglass

Efficiency (EN779:2012)
M6, F7, F8, F9

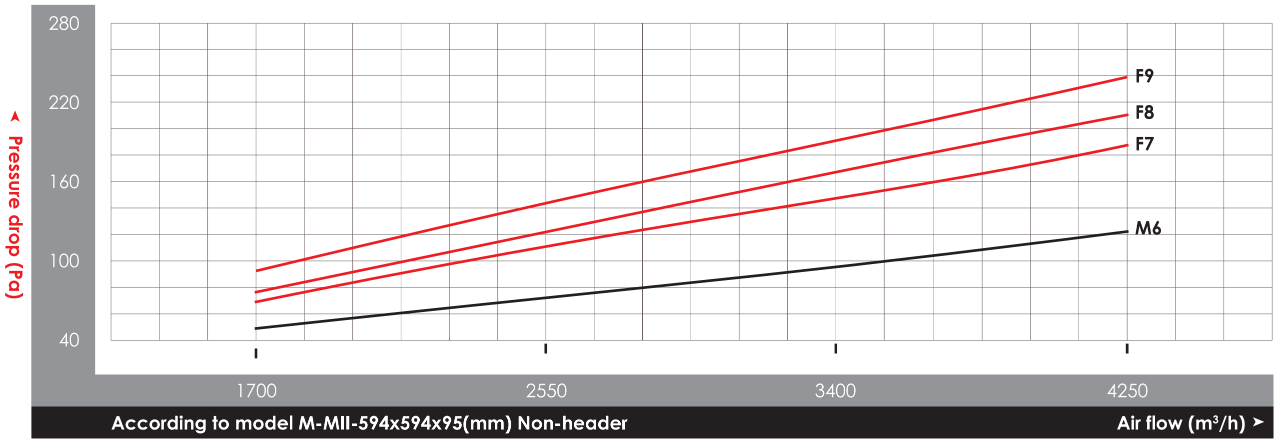
Sealant
Material: Polyurethane glue

Separator
Material: Hot melt bead

Medium Efficiency Mini-Pleated Filter

M-MII

Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Cleanroom
- General
- Commercial Building
- Industrial

Product Specifications

Nominal Dimension	Actual Dimension	Faceguard	Air Flow	Face Velocity	Initial Pressure Drop			
(inch)	(mm)		(m^3/h)	(m/s)	(Pa)			
WxHxD	WxHxD				M6	F7	F8	F9
12x24x2	289x594x50	Non / Single-Sided / Both Sides	400	0.6	90	110	122	145
24x24x2	594x594x50		800	0.6	90	110	122	145
12x24x3	289x594x70		700	1.0	90	110	122	145
24x24x3	594x594x70		1400	1.0	90	110	122	145
12x24x3	289x594x80		800	1.5	90	110	122	145
24x24x3	594x594x80		1600	1.5	90	110	122	145
12x24x4	289x594x95		1700	2.5	100	147	169	190
24x24x4	594x594x95		3400	2.5	100	147	169	190
12x24x4	289x594x100		1700	2.5	100	147	169	190
24x24x4	594x594x100		3400	2.5	100	147	169	190

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.

Product Features

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

Structure/Arrangement
Ultra-slim and compact design

Frame
Material: Galvanized steel / aluminium / stainless steel
Thickness: 50mm, 70mm, 80mm, 95mm, 100mm

Media
Material: Fiberglass
Faceguard: Epoxy powder coated steel mesh

Efficiency (EN779:2012)
M6, F7, F8, F9

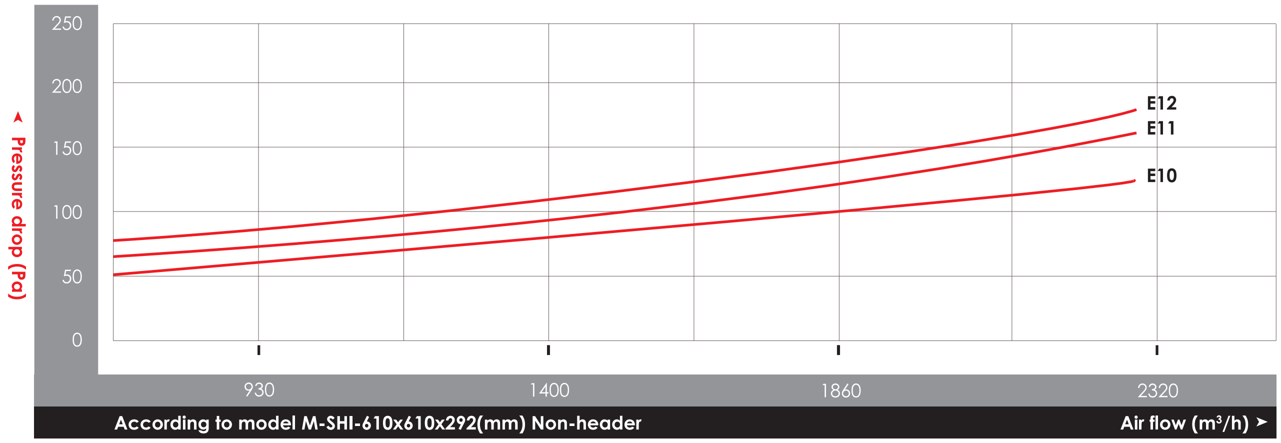
Sealant
Material: Polyurethane glue

Separator
Material: Hot melt bead

Semi-High Efficiency Mini-Pleated Air Filter with Separator

M-SHI

Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Cleanroom
- General
- Commercial Building
- Industrial

Product Specifications

Nominal Dimension	Actual Dimension	Face Velocity	Air Flow	Initial Pressure Drop		
(inch)	(mm)	(m/s)	(m³/h)	(Pa)		
WxHxD	WxHxD			E10	E11	E12
12x24x3	305x610x80	0.3	200	100	130	140
24x24x3	610x610x80	0.3	420	100	130	140
12x24x6	305x610x150	0.7	420	100	130	140
24x24x6	610x610x150	0.7	900	100	130	140
12x24x9	305x610x220	1.0	650	100	130	140
24x24x9	610x610x220	1.0	1400	100	130	140
12x24x12	305x610x292	1.4	860	100	130	140
24x24x12	610x610x292	1.4	1860	100	130	140

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

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, 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

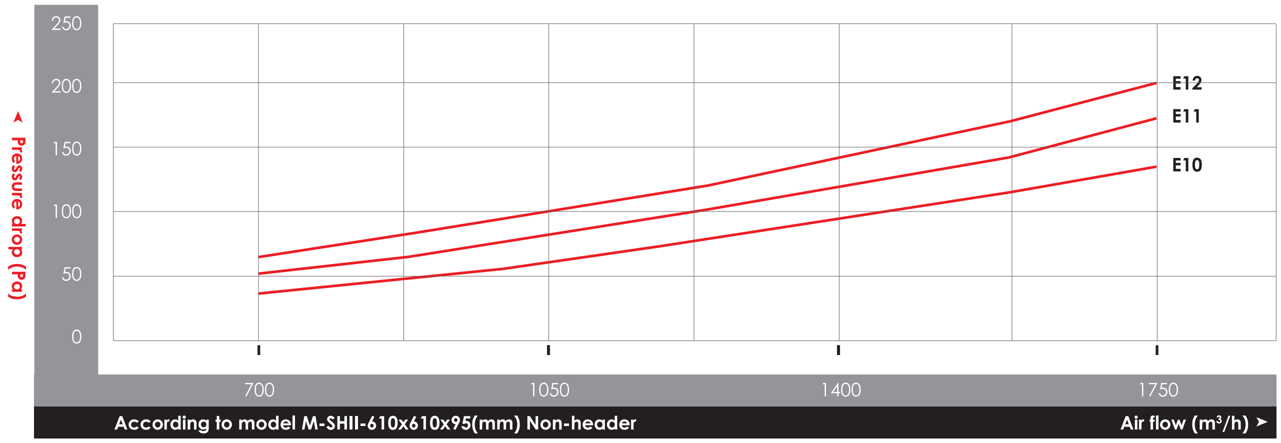
Separator

Material: Corrugated aluminium foil / paper

Semi-High Efficiency Mini-Pleated Air Filter

M-SHII

Graph Of Initial Pressure Drop Versus Air Flow



Applications

- Cleanroom
- General
- Commercial Building
- Industrial

Product Specifications

Nominal Dimension	Actual Dimension	Faceguard	Air Flow	Face Velocity	Initial Pressure Drop		
(inch)	(mm)		(m^3h)	(m/s)	(Pa)		
WxHxD	WxHxD				E10	E11	E12
12x24x2	305x610x50	Downstream 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.

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

Media

Material: Fiberglass

Efficiency (EN1822:2009)

E10, E11, E12

Sealant

Material: Polyurethane glue

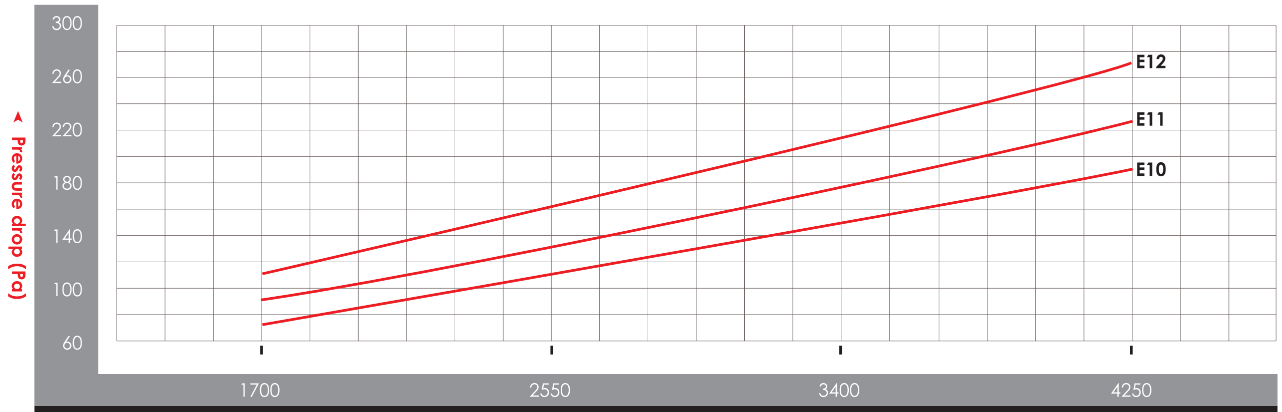
Separator

Material: Hot melt bead

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

M-SHV

Graph Of Initial Pressure Drop Versus Air Flow



According to model M-SHV-594x594x292(mm) Single header with gross media area of 18.3m²

Applications

- Cleanroom
- General
- Commercial Building
- Industrial

Product Specifications

Nominal Dimension	Actual Dimension	Gross Media Area	Header	Air Flow	Initial Pressure Drop at 2.5 m/s		
(inch)	(mm)	(m²)	(Non/Single/Double)	(m³/h)	(Pa)		
WxHxD	WxHxD				E10	E11	E12
12x24x12	289x594x292	9.2	Single Header	1700	150	180	215
24x12x12	594x289x292	8.9	Single Header	1700	150	180	215
24x20x12	594x492x292	15.2		2800	150	180	215
24x24x12	594x594x292	18.3		3400	150	180	215
12x24x12	610x610x292	18.8	Non-Header	1700	120	150	185
24x24x12	305x610x292	9.4		3400	120	150	185

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

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

High Efficiency Particulate Air Filter with Separator

M-HI

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 / 150mm / 220mm / 292mm
Header: Non-header / single header / double header (thickness: 20mm)

Media

Material: Fiberglass

Efficiency (EN1822:2009)

H13, H14

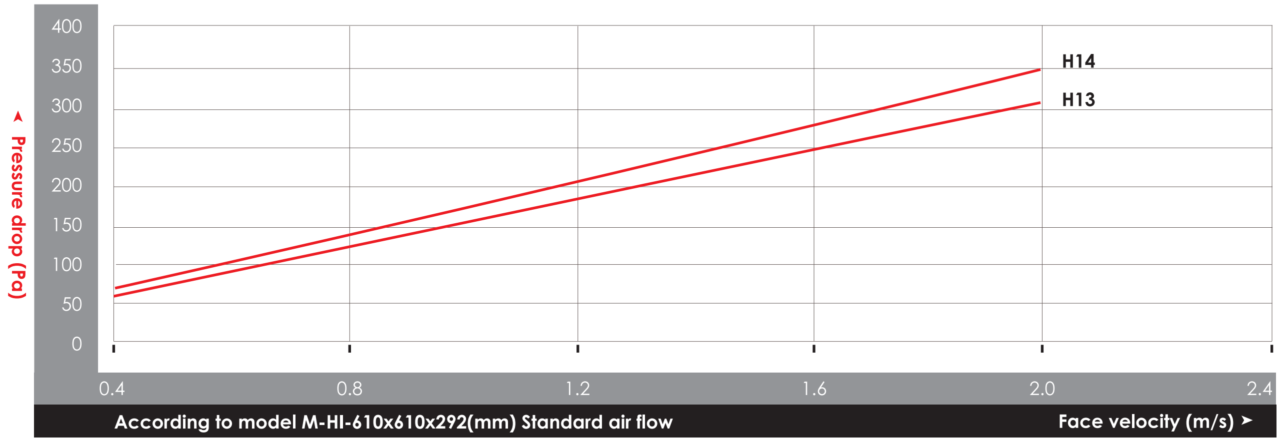
Sealant

Material: Polyurethane glue

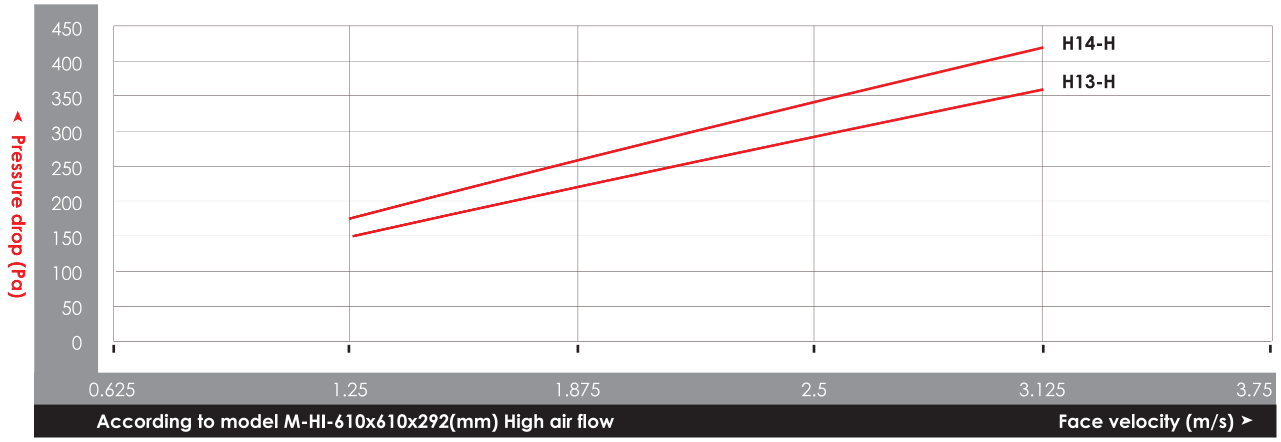
Separator

Material: Corrugated aluminium / paper

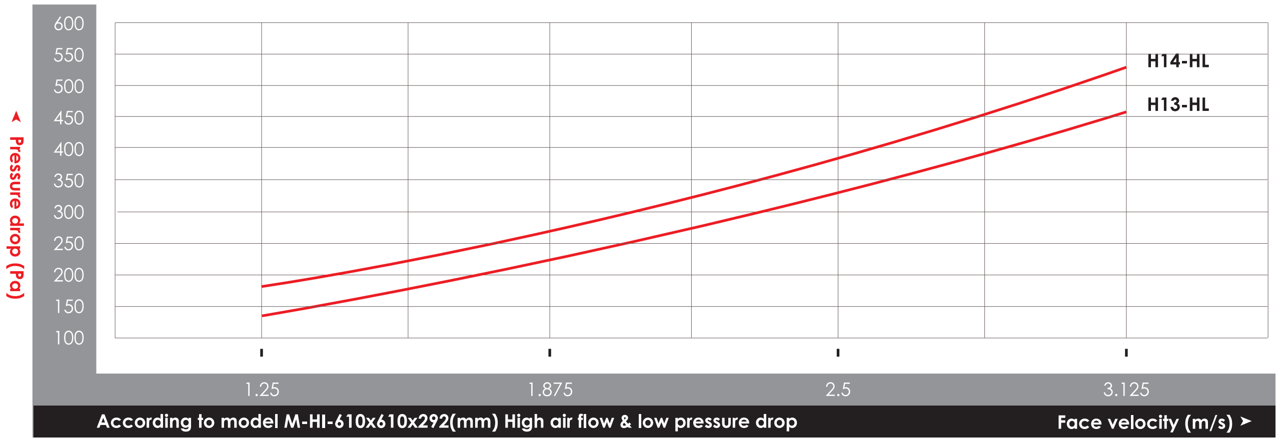
Graph Of Initial Pressure Drop Versus Face Velocity (Standard Air Flow)



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)	(m^3/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)	(m^3/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)	(m^3/h)	(m/s)	(Pa)	
WxHxD	WxHxD				
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 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)

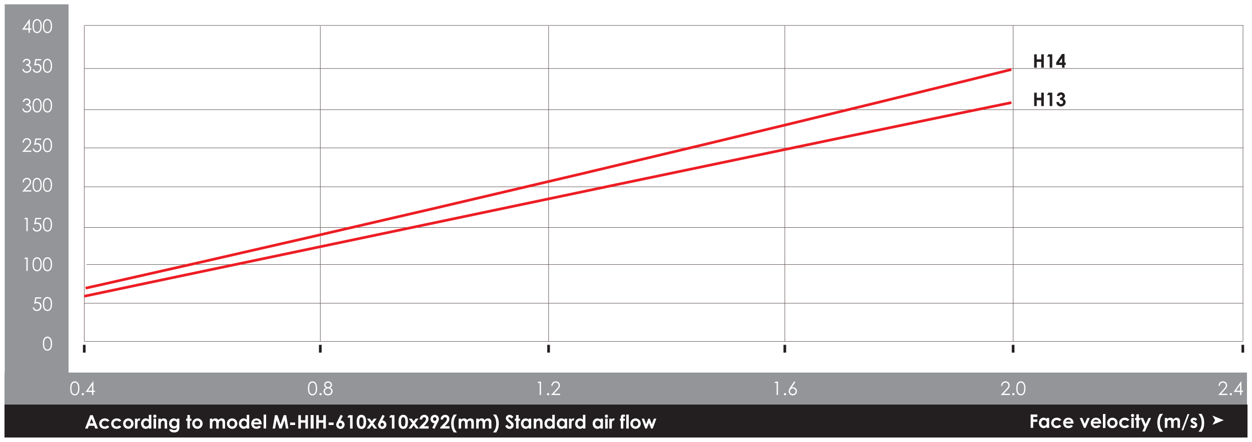
H13, H14

High Temperature Resistant

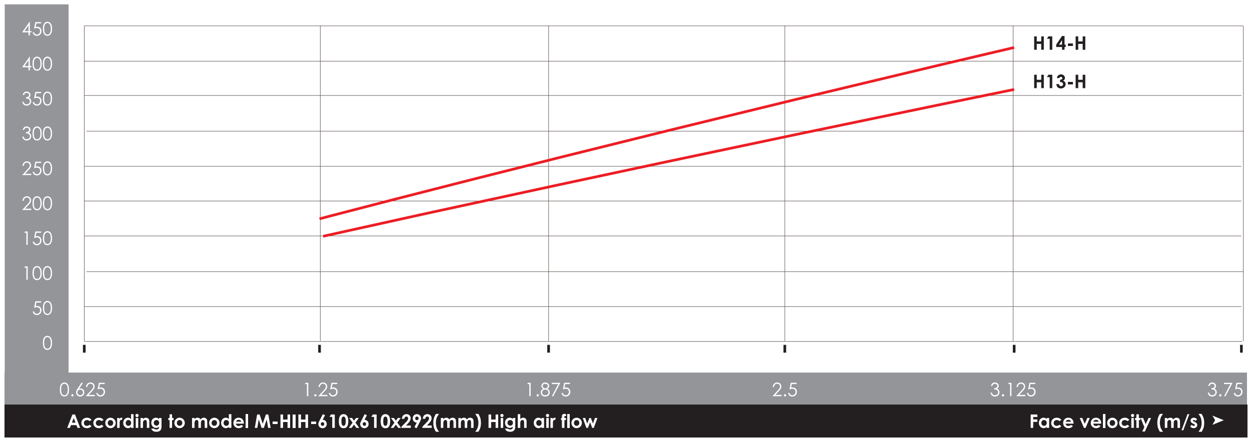
Separator

Material: Corrugated aluminium

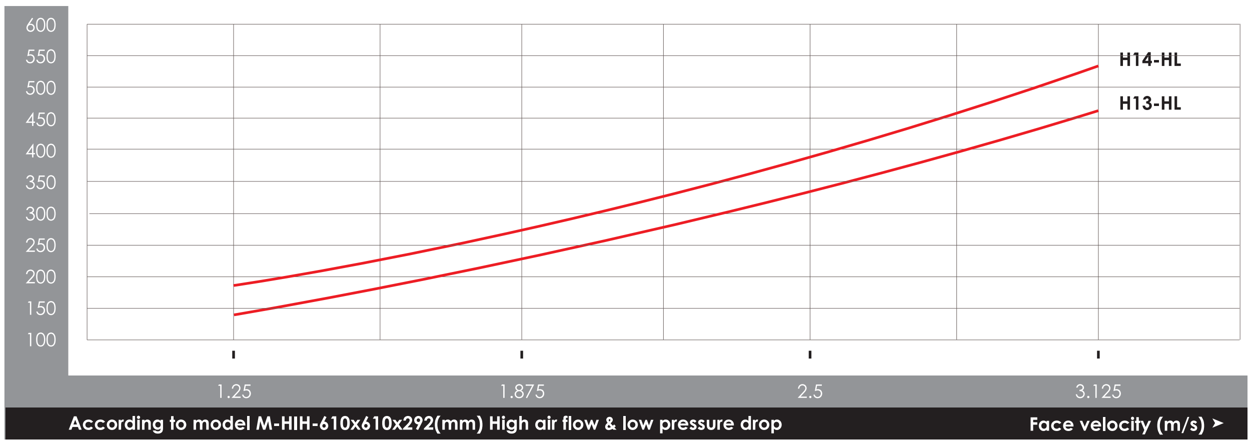
Graph Of Initial Pressure Drop Versus Face Velocity (Standard Air Flow)



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	Rated Air Flow	Face Velocity	Rated Initial Pressure Drop	
(inch)	(mm)	(m^3/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)	(m^3/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)	(m^3/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

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

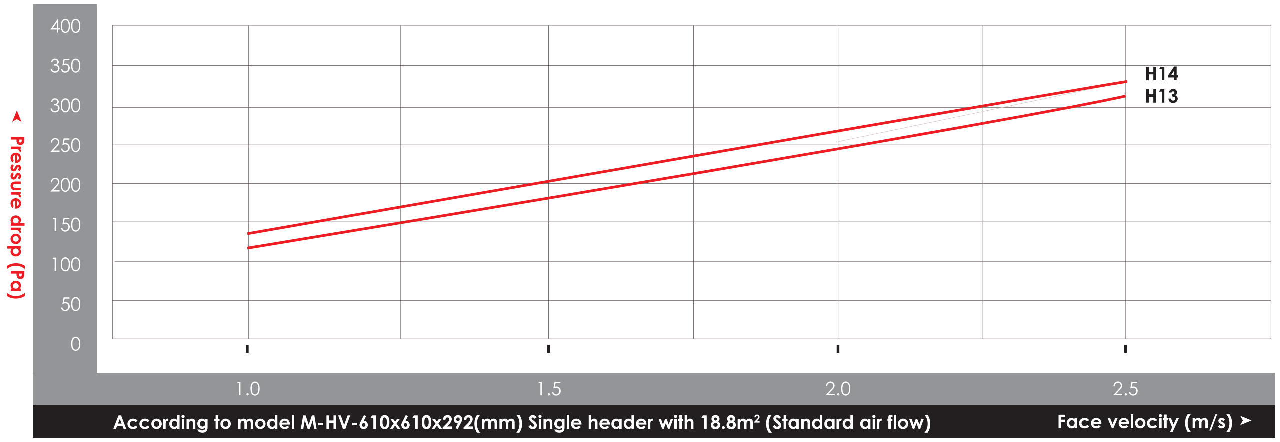
Efficiency (EN1822:2009)

H13, H14

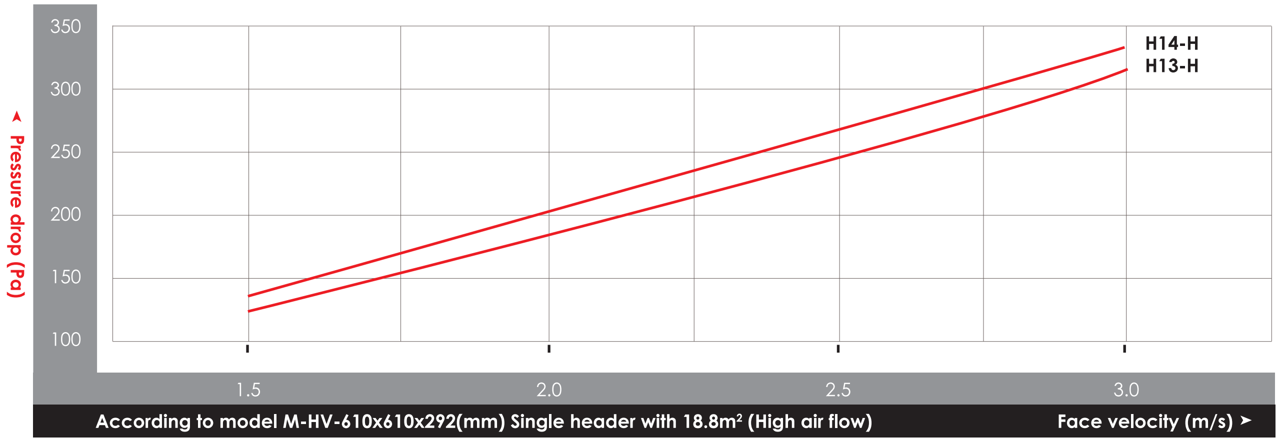
Sealant

Material: Polyurethane glue

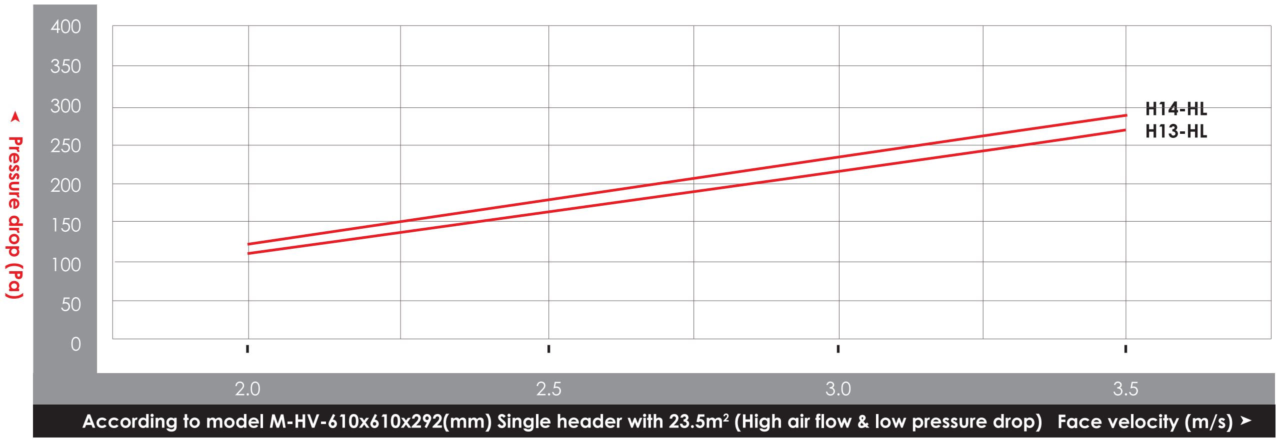
Graph Of Initial Pressure Drop Versus Face Velocity (Standard Air Flow)



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	Gross Media Area	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(m^2)	(m^3/h)	(m/s)	(Pa)	
WxHxD	WxHxD				H13	H14
12x24x12	289x594x292	9.2	1000	2.0	249	270
24x12x12	594x289x292	8.9	1000		249	270
24x20x12	594x492x292	15.2	1800		249	270
24x24x12	594x594x292	18.3	2200		249	270
24x24x12	610x610x292	18.8	2400		249	270
12x24x12	305x610x292	9.4	1200		249	270

Product Specifications (High Air Flow)

Nominal Dimension	Actual Dimension	Gross Media Area	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(m^2)	(m^3/h)	(m/s)	(Pa)	
WxHxD	WxHxD				H13	H14
12x24x12	289x594x292	9.2	1200	2.5	249	270
24x12x12	594x289x292	8.9	1200		249	270
24x20x12	594x492x292	15.2	2200		249	270
24x24x12	594x594x292	18.3	2700		249	270
24x24x12	610x610x292	18.8	3000		249	270
12x24x12	305x610x292	9.4	1400		249	270

Product Specifications (High Air Flow & Low Pressure Drop)

Nominal Dimension	Actual Dimension	Gross Media Area	Air Flow	Face Velocity	Initial Pressure Drop	
(inch)	(mm)	(m^2)	(m^3/h)	(m/s)	(Pa)	
WxHxD	WxHxD				H13	H14
24x12x12	610x305x292	11.8	1800	3.3	249	270
24x24x12	610x610x292	23.5	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

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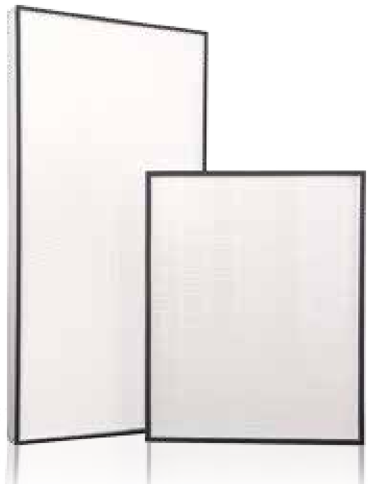
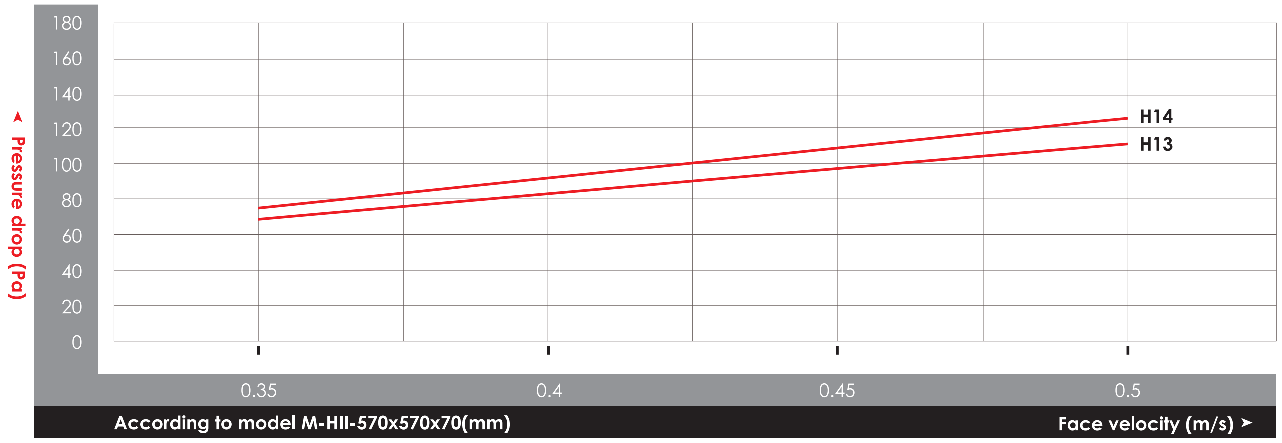


Graph Of Initial Pressure Drop Versus Face Velocity



Applications

- Cleanroom
- Semiconductor
- General

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		200	0.35	108	115
2x2	570x570		367	0.35	108	115
2.5x2	762x610		535	0.35	108	115
3x2	915x610	50	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		258	0.45	100	110
2x2	570x570		472	0.45	100	110
2.5x2	762x610		687	0.45	100	110
3x2	915x610	70	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		258	0.45	85	91
2x2	570x570		472	0.45	85	91
2.5x2	762x610		687	0.45	85	91
3x2	915x610	90	831	0.45	85	91
4x2	1170x570		1000	0.45	85	91
4x3	1170x870		1550	0.45	85	91
4x4	1170x1170		2100	0.45	85	91
1x2	305x610		258	0.45	70	74
2x2	570x570		472	0.45	70	74
2.5x2	762x610		687	0.45	70	74
3x2	915x610	110	831	0.45	70	74
4x2	1170x570		1000	0.45	70	74
4x3	1170x870		1550	0.45	70	74
4x4	1170x1170		2100	0.45	70	74

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

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

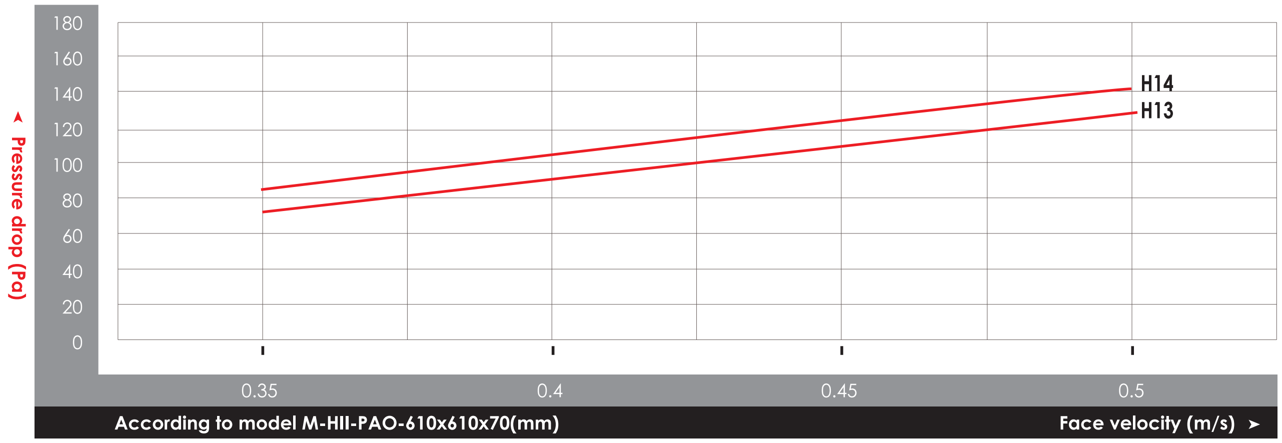
Sealant
Material: Polyurethane glue

Separator
Material: Hot melt glue

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

M-HII-PAO

Graph Of Initial Pressure Drop Versus Face Velocity



Applications

- Cleanroom
- Pharmaceutical & Laboratories
- Commercial Building
- General
- Industrial

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		1637	0.35	115	135
1x2	305x610	70	258	0.45	110	125
2x2	570x570		472	0.45	110	125
2.5x2	726x610		687	0.45	110	125
3x2	915x610		831	0.45	110	125
4x2	1170x570		1000	0.45	110	125
4x3	1170x870		1550	0.45	110	125
4x4	1170x1170		2100	0.45	110	125
1x2	305x610	90	258	0.45	91	103
2x2	570x570		472	0.45	91	103
2.5x2	762x610		687	0.45	91	103
3x2	915x610		831	0.45	91	103
4x2	1170x570		1000	0.45	91	103
4x3	1170x870		1550	0.45	91	103
4x4	1170x1170		2100	0.45	91	103
1x2	305x610	110	258	0.45	74	80
2x2	570x570		472	0.45	74	80
2.5x2	726x610		687	0.45	74	80
3x2	915x610		831	0.45	74	80
4x2	1170x570		1000	0.45	74	80
4x3	1170x870		1550	0.45	74	80
4x4	1170x1170		2100	0.45	74	80

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

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

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

M-HII-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)

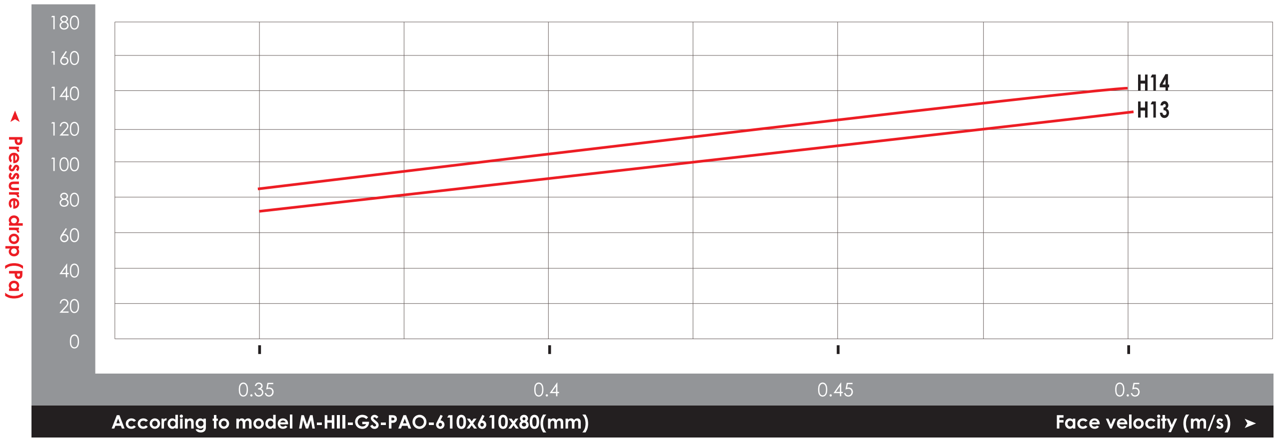
Media
Material: Ultrafine fiberglass

Efficiency (EN1822:2009)
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	
(foot)	(mm)	(mm)	(m³/h)	(Pa)	
WxH	WxH			H13	H14
1x2	305x610	80	258	110	125
2x2	570x570	80	472	110	125
2x2	610x610	80	545	110	125
2.5x2	762x610	80	687	110	125
3x2	915x610	80	831	110	125
4x2	1170x570	80	1000	110	125
1x2	305x610	100	258	91	103
2x2	570x570	100	472	91	103
2x2	610x610	100	545	91	103
2.5x2	762x610	100	687	91	103
3x2	915x610	100	831	91	103
4x2	1170x570	100	1000	91	103

Product Specifications - Side Gel

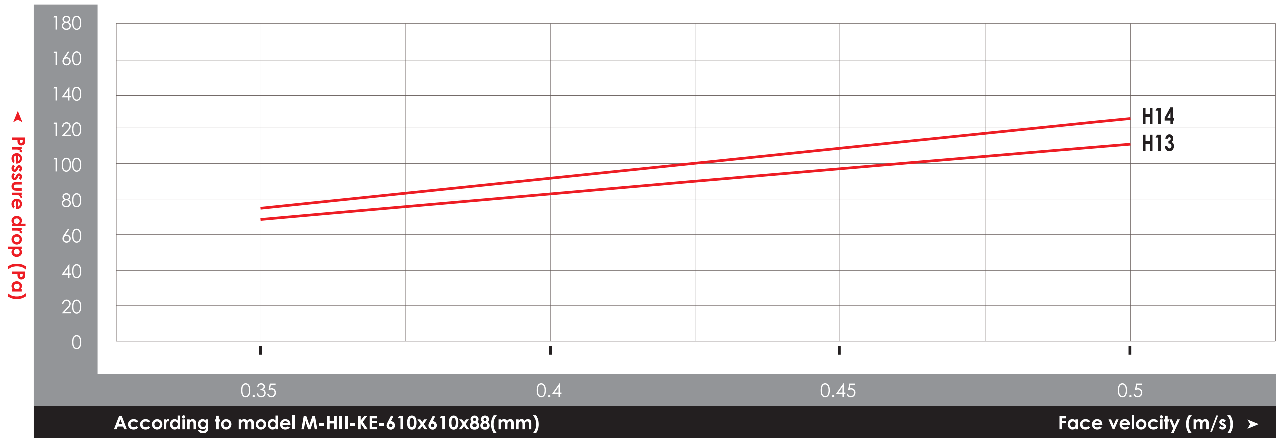
Nominal Dimension	Actual Dimension	External Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s	
(foot)	(mm)	(mm)	(mm)	(m³/h)	(Pa)	
WxH	WxH	(W+40)x(H+40)			H13	H14
1x2	305x610	345x650	93	258	91	103
2x2	570x570	610x610	93	472	91	103
2x2	610x610	650x650	93	545	91	103
2.5x2	762x610	802x650	93	687	91	103
3x2	915x610	955x650	93	831	91	103
4x2	1170x570	1210x610	93	1000	91	103

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 Specifications - Knife Edge Type

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s	
(foot)	(mm)	(mm)	(m³/h)	(Pa)	
WxH	WxH			H13	H14
1x2	305x610	88	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.

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

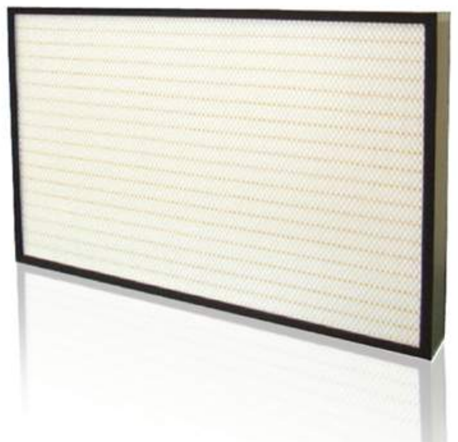
Efficiency (EN1822:2009)
H13, H14

Sealant
Material: Polyurethane glue

Separator
Material: Hot melt bead

High Efficiency Particulate Mini-Pleated Air Filter (PTFE)

M-HII-PTFE



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

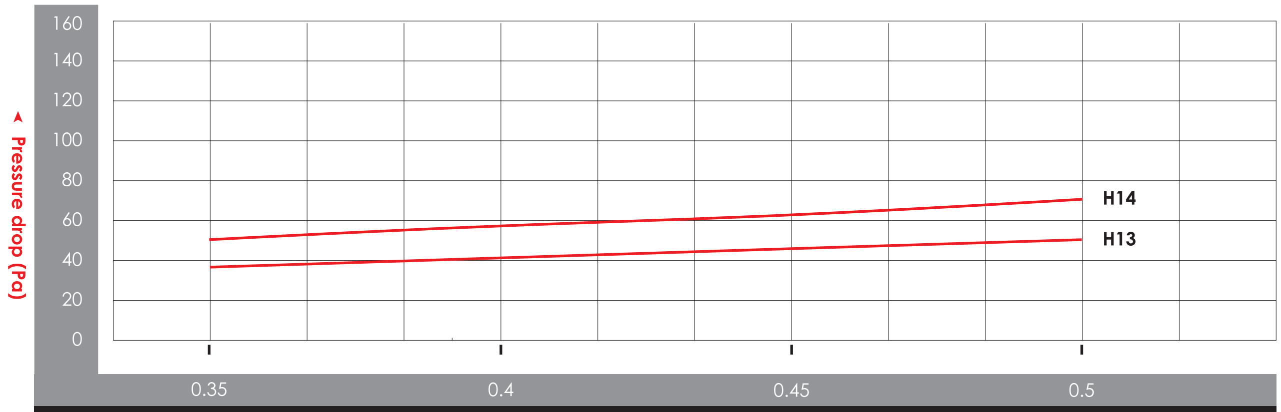
Efficiency (EN1822:2009)
H13, H14

Faceguard
Material: Epoxy powder coated steel, aluminium

Low Initial Pressure Drop

Sealant
Material: Polyurethane glue

Graph Of Initial Pressure Drop Versus Face Velocity



According to model M-HII-PTFE-570x570x50(mm)

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	52	74
2x4	570x1170		0.35	52	74
4x4	1170x1170		0.35	52	74
2x2	570x570	50	0.45	45	63
2x4	570x1170		0.45	45	63
4x4	1170x1170		0.45	45	63
2x2	570x570	70	0.45	27	38
2x4	570x1170		0.45	27	38
4x4	1170x1170		0.45	27	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

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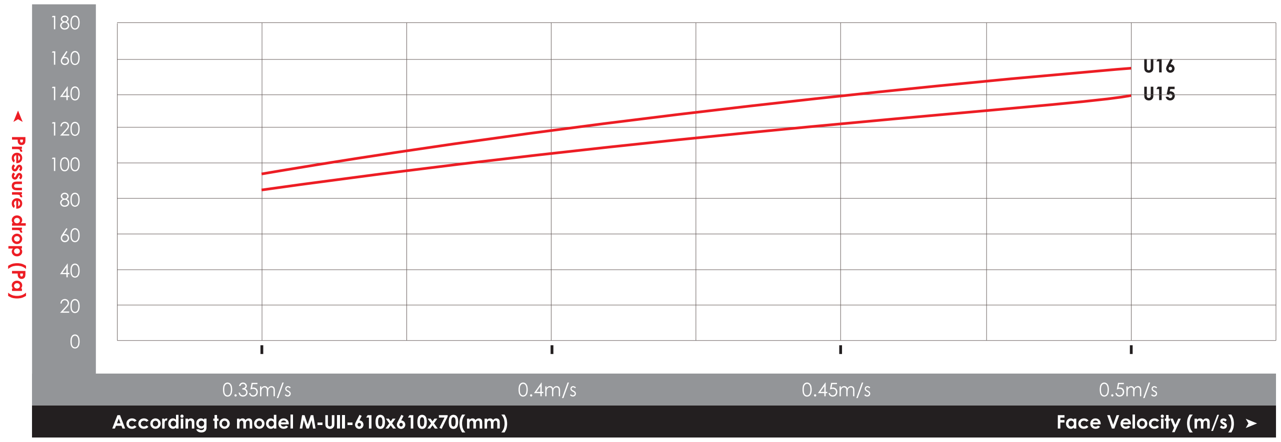
UL

Graph Of Initial Pressure Drop Versus Face Velocity



Applications

- Cleanroom
- Semiconductor
- General

Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Face Velocity	Initial Pressure Drop	
(foot)	(mm)	(mm)	(m^3/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	0.45	135	148
1x2	305x610	70	258	0.45	125	140
2x2	570x570	70	472	0.45	125	140
2.5x2	762x610	70	687	0.45	125	140
3x2	915x610	70	831	0.45	125	140
4x2	1170x570	70	1000	0.45	125	140
4x3	1170x870	70	1550	0.45	125	140
4x4	1170x1170	70	2100	0.45	125	140
1x2	305x610	90	258	0.45	103	115
2x2	570x570	90	472	0.45	103	115
2.5x2	762x610	90	687	0.45	103	115
3x2	915x610	90	831	0.45	103	115
4x2	1170x570	90	1000	0.45	103	115
4x3	1170x870	90	1550	0.45	103	115
4x4	1170x1170	90	2100	0.45	103	115
1x2	305x610	110	258	0.45	80	94
2x2	570x570	110	472	0.45	80	94
2.5x2	762x610	110	687	0.45	80	94
3x2	915x610	110	831	0.45	80	94
4x2	1170x570	110	1000	0.45	80	94
4x3	1170x870	110	1550	0.45	80	94
4x4	1170x1170	110	2100	0.45	80	94

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.

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

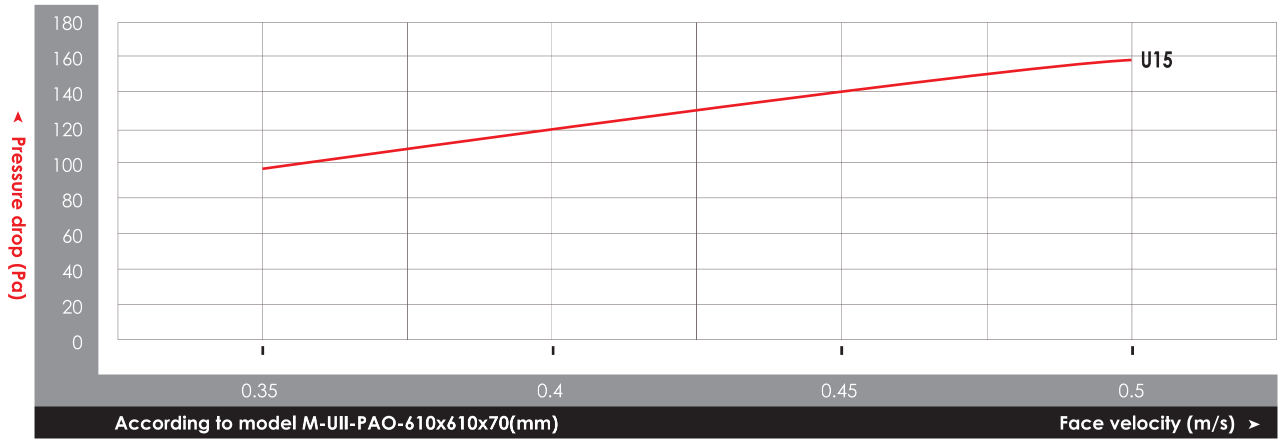
Separator

Material: Hot melt bead

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

M-UII-PAO

Graph Of Initial Pressure Drop Versus Face Velocity



Applications

- Cleanroom
- Pharmaceutical & Laboratories
- Commercial Building
- General
- Industrial

Product Specifications

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Face Velocity	Initial Pressure Drop
(foot)	(mm)	(mm)	(m^3/h)	(m/s)	(Pa)
WxH	WxH				U15
1x2	305x610		200	0.35	148
2x2	570x570		367	0.35	148
2.5x2	762x610		535	0.35	148
3x2	915x610	50	646	0.35	148
4x2	1170x570		775	0.35	148
4x3	1170x870		1206	0.35	148
4x4	1170x1170		1637	0.35	148
1x2	305x610		258	0.45	140
2x2	570x570		472	0.45	140
2.5x2	726x610		687	0.45	140
3x2	915x610	70	831	0.45	140
4x2	1170x570		1000	0.45	140
4x3	1170x870		1550	0.45	140
4x4	1170x1170		2100	0.45	140
1x2	305x610		258	0.45	115
2x2	570x570		472	0.45	115
2.5x2	762x610		687	0.45	115
3x2	915x610	90	831	0.45	115
4x2	1170x570		1000	0.45	115
4x3	1170x870		1550	0.45	115
4x4	1170x1170		2100	0.45	115
1x2	305x610		258	0.45	94
2x2	570x570		472	0.45	94
2.5x2	726x610		687	0.45	94
3x2	915x610	110	831	0.45	94
4x2	1170x570		1000	0.45	94
4x3	1170x870		1550	0.45	94
4x4	1170x1170		2100	0.45	94

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.

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

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)

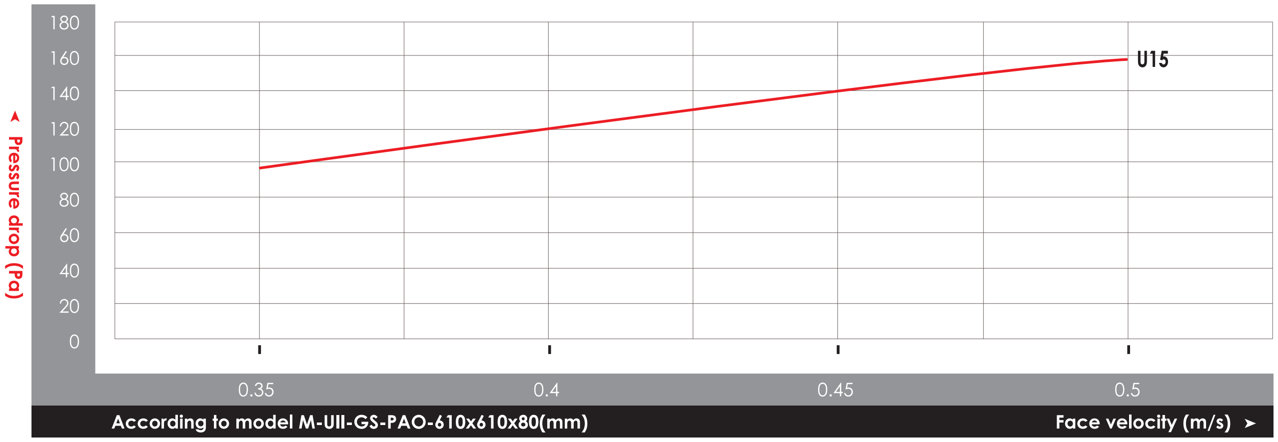
Media
Material: Ultrafine fiberglass

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	115
2x2	570x570	100	472	115
2x2	610x610	100	545	115
2.5x2	762x610	100	687	115
3x2	915x610	100	831	115
4x2	1170x570	100	1000	115

Product Specifications - Side Gel

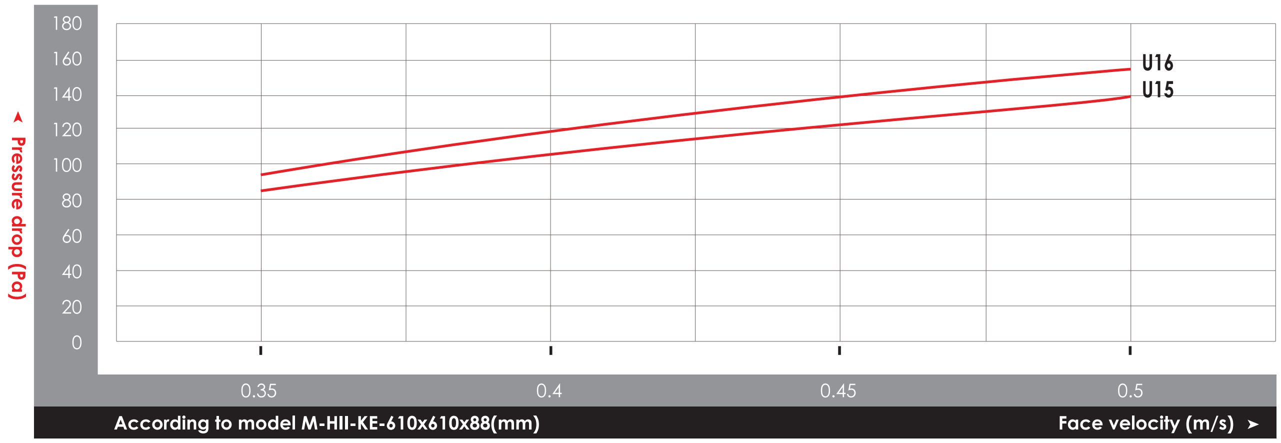
Nominal Dimension	Actual Dimension	External Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s
(foot)	(mm)	(mm)	(mm)	(m³/h)	(Pa)
WxH	WxH	(W+40)x(H+40)			U15
1x2	305x610	345x650	93	258	115
2x2	570x570	610x610	93	472	115
2x2	610x610	650x650	93	545	115
2.5x2	762x610	802x650	93	687	115
3x2	915x610	955x650	93	831	115
4x2	1170x570	1210x610	93	1000	115

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

Graph Of Initial Pressure Drop Versus Face Velocity



Applications

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

Product Specifications - Knife Edge Type

Nominal Dimension	Actual Dimension	Thickness	Air Flow	Initial Pressure Drop at 0.45m/s	
(foot)	(mm)	(mm)	(m^3/h)	(Pa)	
WxH	WxH			U15	U16
1x2	305x610	88	258	125	140
2x2	570x570	88	472	125	140
2x2	610x610	88	545	125	140
2.5x2	762x610	88	687	125	140
3x2	915x610	88	831	125	140
4x2	1170x570	88	1000	125	140
4X3	1170X870	88	1550	125	140
4x4	1170x1170	88	2100	125	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.

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

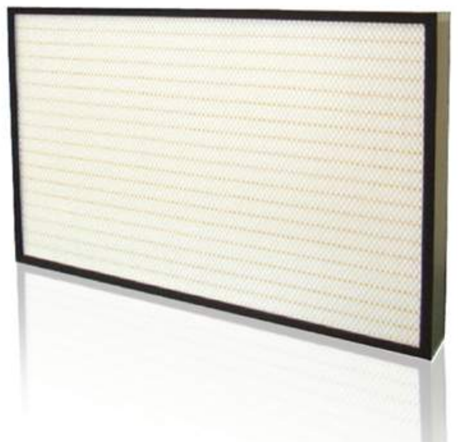
Efficiency (EN1822:2009)
U15, U16

Sealant
Material: Polyurethane glue

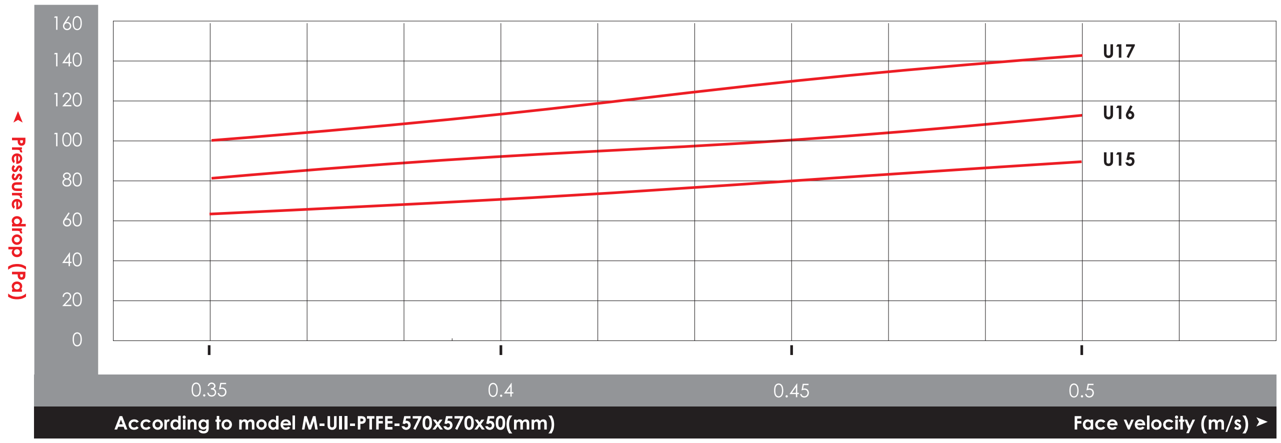
Separator
Material: Hot melt bead

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 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.

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

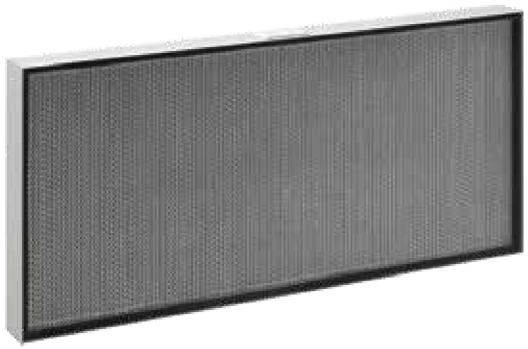
Common Organic Gases And Related Chemical Filters

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	

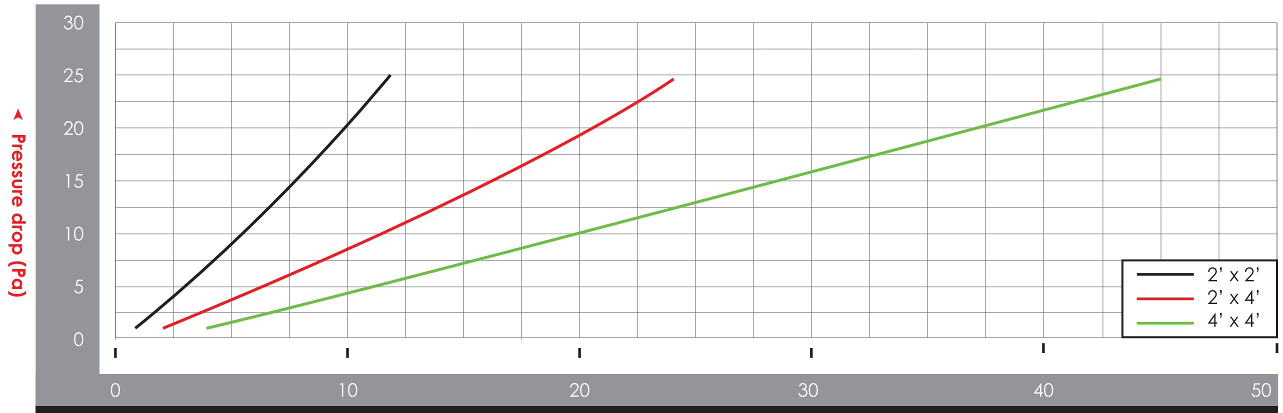
Common Acidic And Basis Gases And Related Chemical Filters

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				
	Nitrous acid ion	NO_2^-				IC analysis (Liquide collection)
	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_2S	Volcano, mineral spring, Decomposition of protein			GC analysis (Air collection)
	Methyl mercaptan	CH_3SH	Decomposition of protein			
	Dimethyl sulfide	$(CH_3)_2S$				
	2-dimethyl sulfide	$(CH_3)_2S_2$				
Bases	Ammonia ion	NH_4^+	Human and animal waste	Puro-C, Puro-T, CT	Puro-F	NH meter IC analysis
	Trimethylamine	$(CH_3)_3N$	Excrement, manure			IC analysis
Others	Boron	B	Glass fiber	Puro-C	Puro-F	ICP/MS analysis

Puro-F



Graph Of Initial Pressure Drop Vs Air Flow



According to model with pleat depth: 50mm, pleat spacing: 10mm

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 (m^2)	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, H_2S)	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.

Chemical Filter

Puro-C

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 (m^2)	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, H_2S)	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

Puro-V

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_2S)	Alkaline pollutants (NH3)	Condensable Gases (VOC)	Dopant (Boron, Phosphorus)

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

Puro-T

Product Specifications

Model	Puro-T Dimension WxHxD (mm)		Air Volume (m^3/h)	Pressure (Pa)	Gas Removal Effciency (%)	SV Value	Absorbent Volume (ft^3)
	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

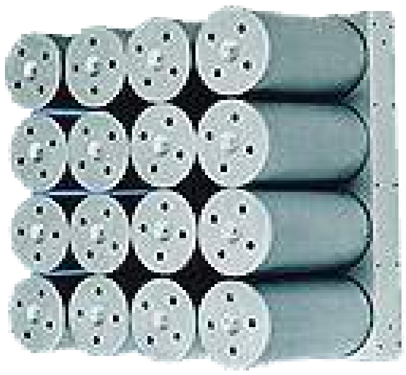
Pressure Drop
Constant system

Easy Maintenance Procedures

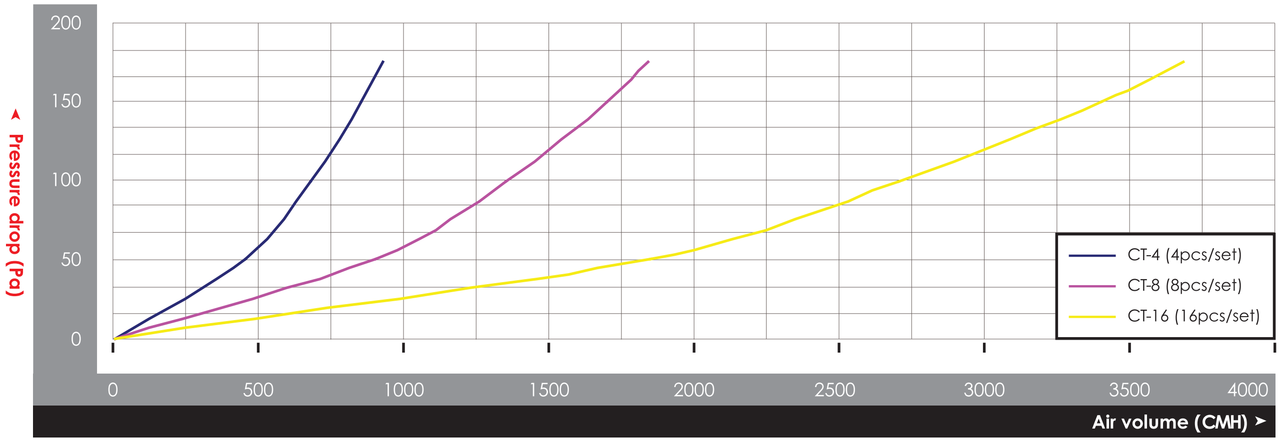
Efficiency
Up to 90%

High Chemical Removal Efficiency

CT Series



Graph Of Initial Pressure Drop Vs Air Flow



Applications

- Cleanroom
- Semiconductor
- Commercial Building
- Industrial

Product Specifications

Width (W)	Dimension of CT Series (mm) Height (H)	Depth (D)	Depth of Media Bed (mm)	Number of Cartridges
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.

Product Features

Frame
Material: Galvanized steel / stainless steel

Compatible With Various Type Of Media

Pressure Drop
Constant system

Easy Maintenance Procedures

easy

Efficiency
> 90%

High Chemical Removal Efficiency

Chemical Filter
S-1000

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: 50 lbs/ft³ (0.8g/cc)±5%
Nominal pellet diameter: 1/8" (3.175mm)
Potassium permanganate content: 8% min

Targeted Contaminants

Sulphur oxides, nitric oxide, formaldehyde, hydrogen sulphide, lower moleculer 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

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 100000CFM
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

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Chemical Filter
M-1000

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/ft^3 (0.8g/cc)±5%
Nominal pellet diameter: 1/8" (3.175mm)
potassium permanganate content: 8% min

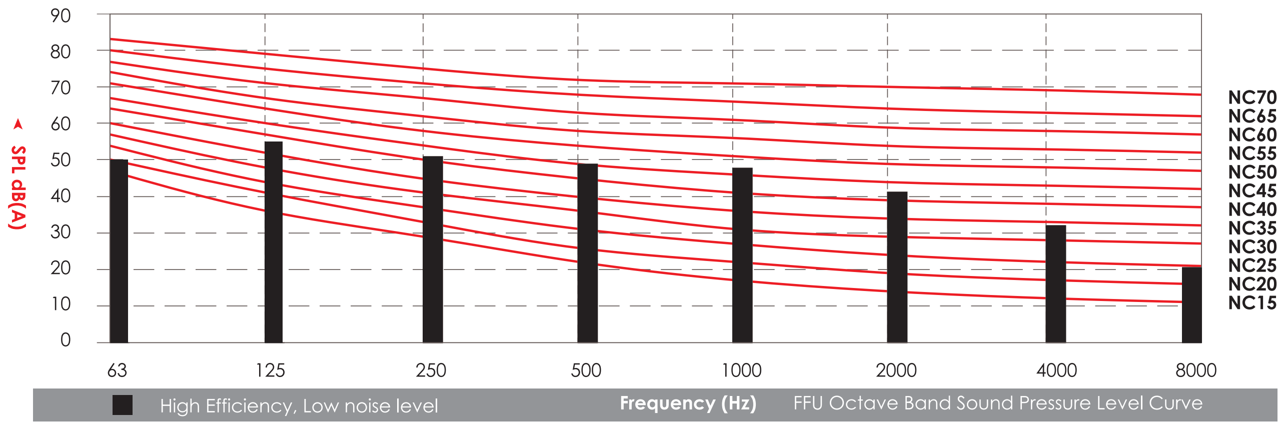
Targeted Contaminants
Sulfur dioxde, hydrogen sulfide

Removal Capacity
Hydrogen sulfide: 20% minimum by weight
Sulfur dioxide: 10% minimum by weight

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 prefilter, 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

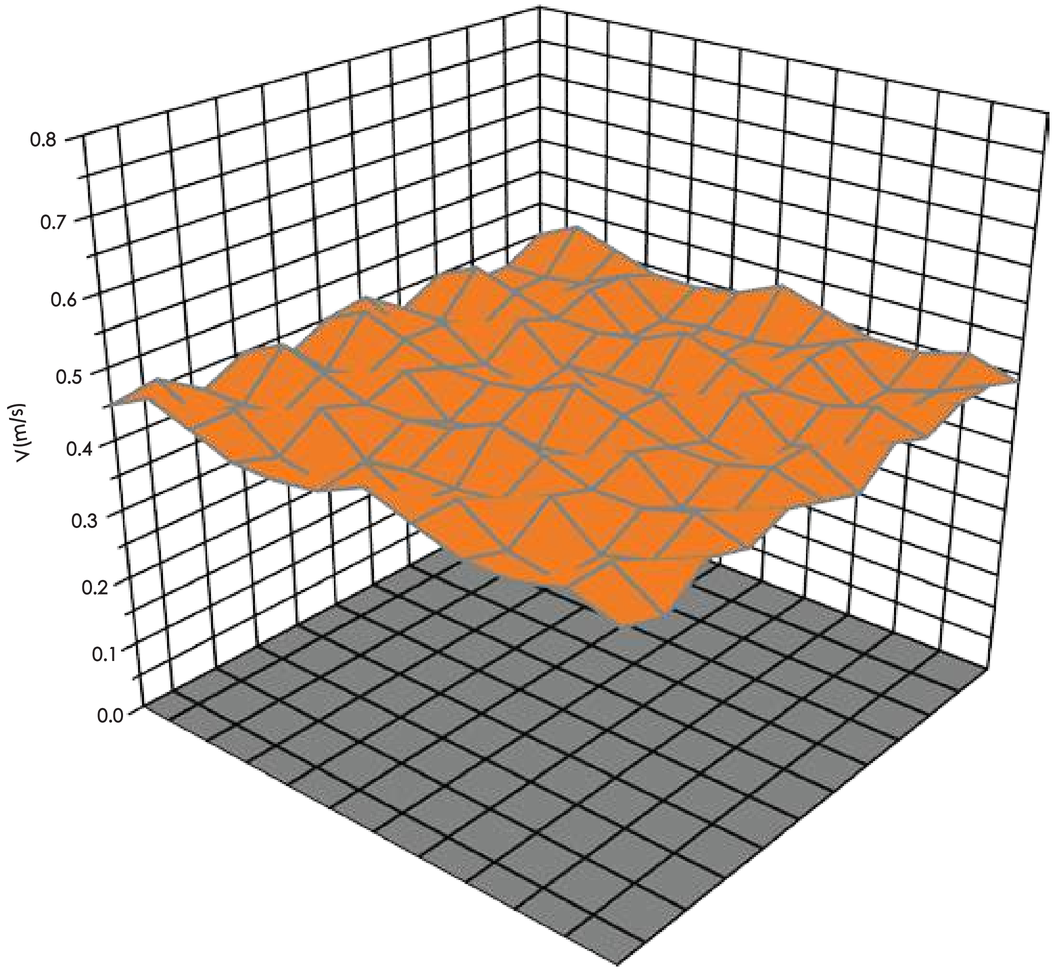
Low Energy Consumption
High efficiency blower

Low Noise Level
High total static pressure

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

Uniformity of Air Distribution

Ensure the deviation of face velocity is within ±10%



Air Velocity Distribution 3D Diagram

AC Motor Technical Data

Power Input: 1Φ 220V - 240V 50Hz

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

Series	F-34AM	F-34AH	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
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: 1ϕ 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
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
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.

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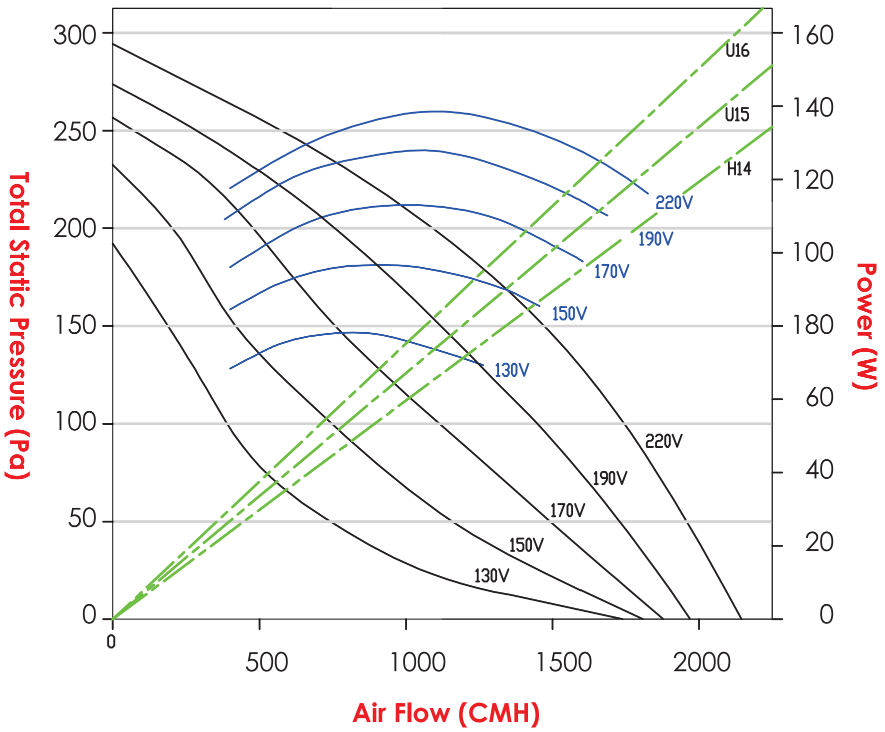
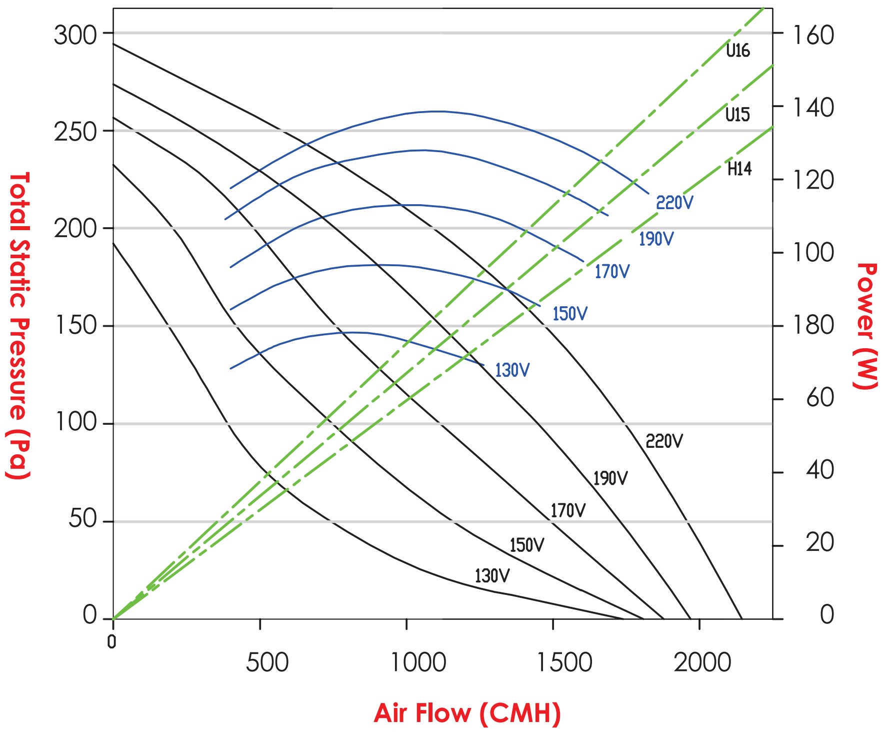
FFU

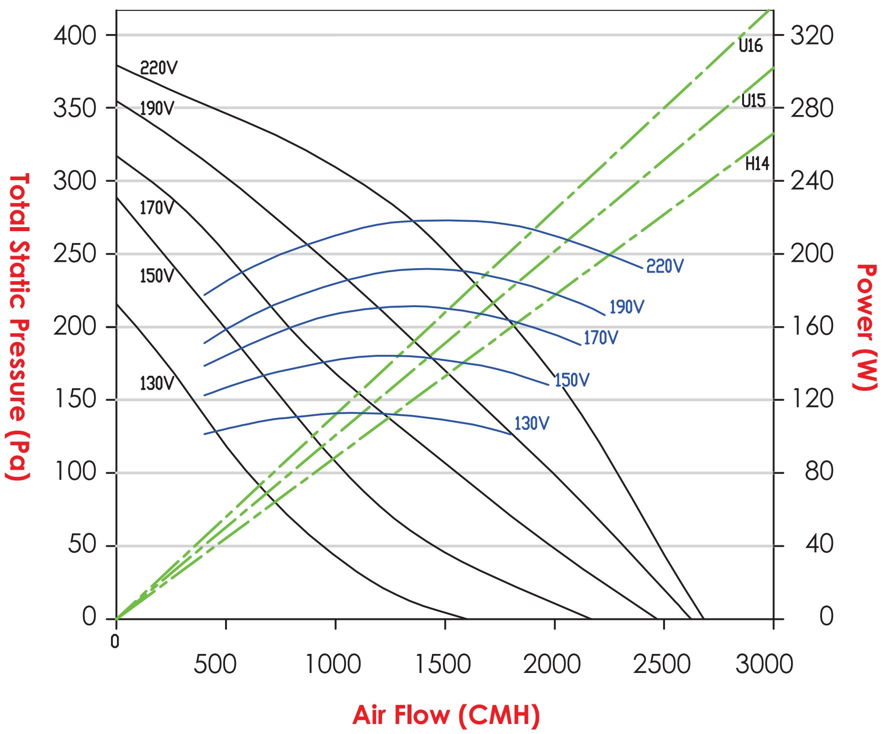
AC Motor



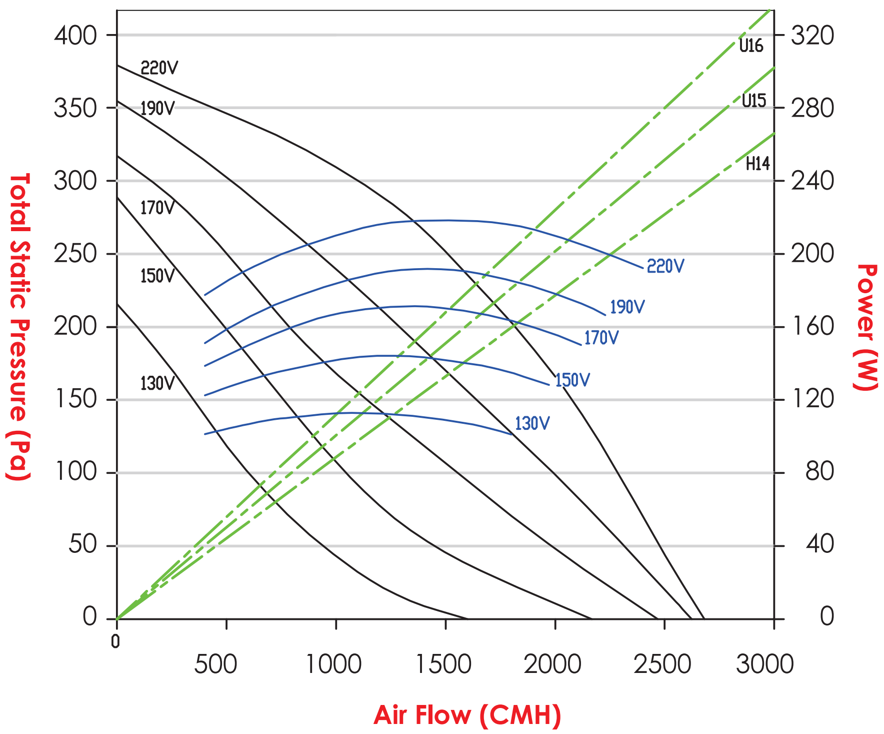
FFU Performence Curve (F-22AL)



FFU Performence Curve (F-23AL)



FFU Performence Curve (F-24AM)



FFU Performence Curve (F-34AM)

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

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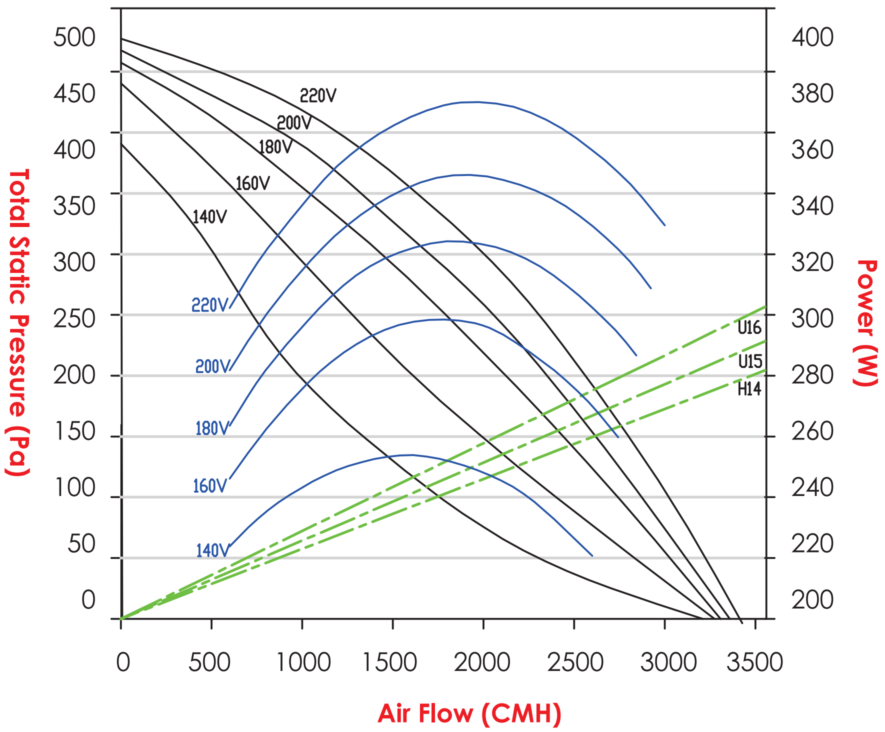
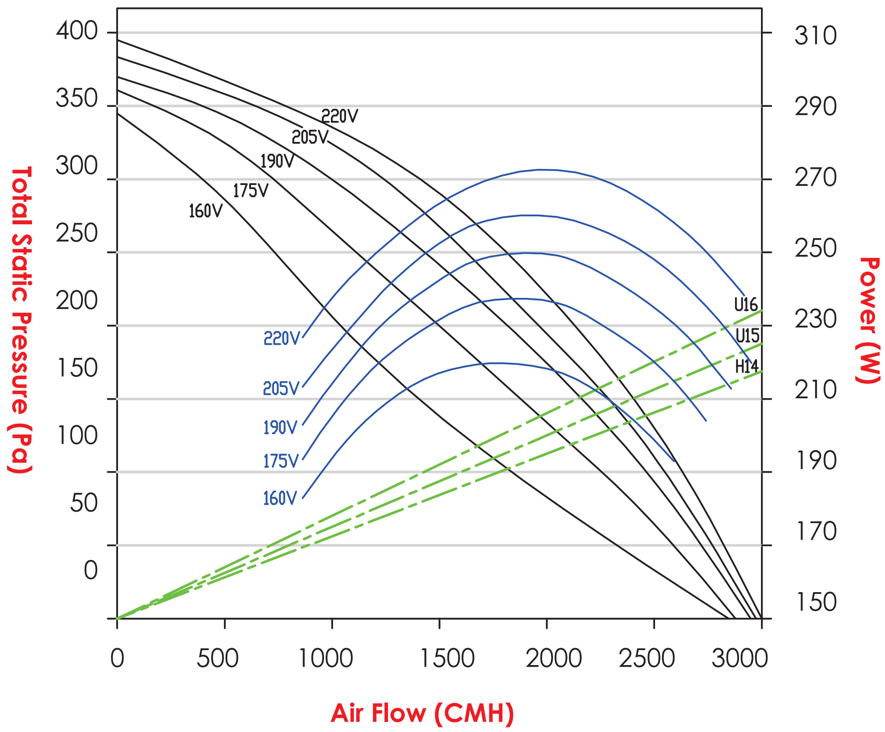
FFU

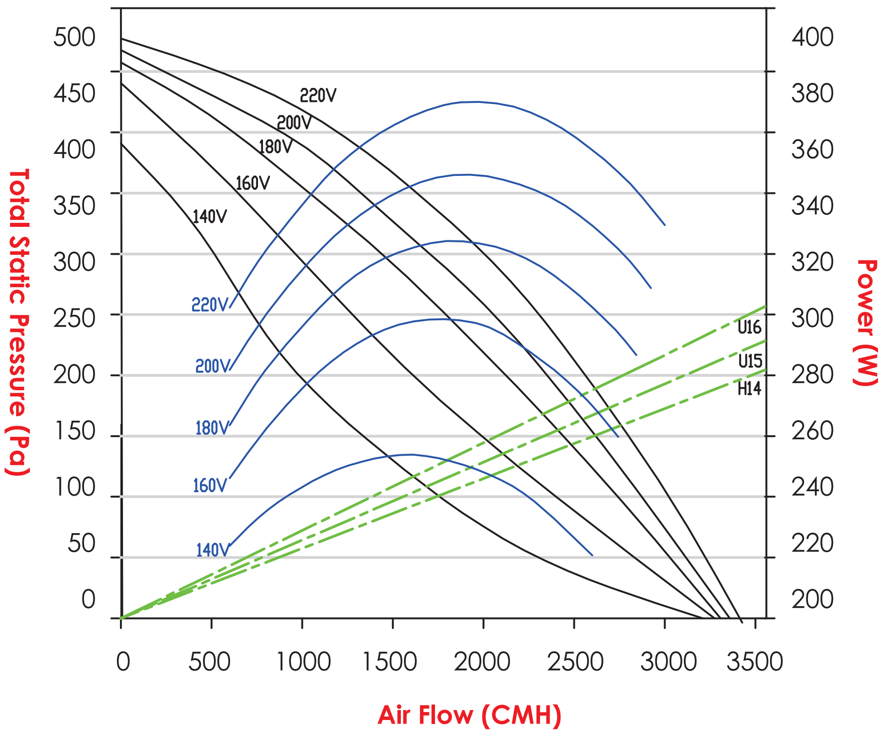
AC Motor



FFU Performence Curve (F-34AH)



FFU Performence Curve (F-44AM1)

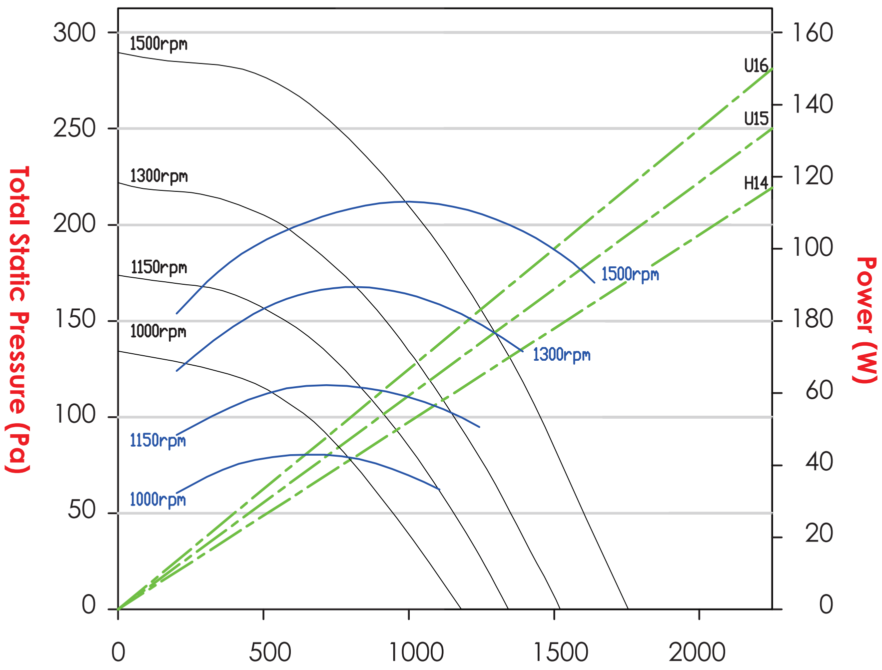


FFU Performence Curve (F-44AH)

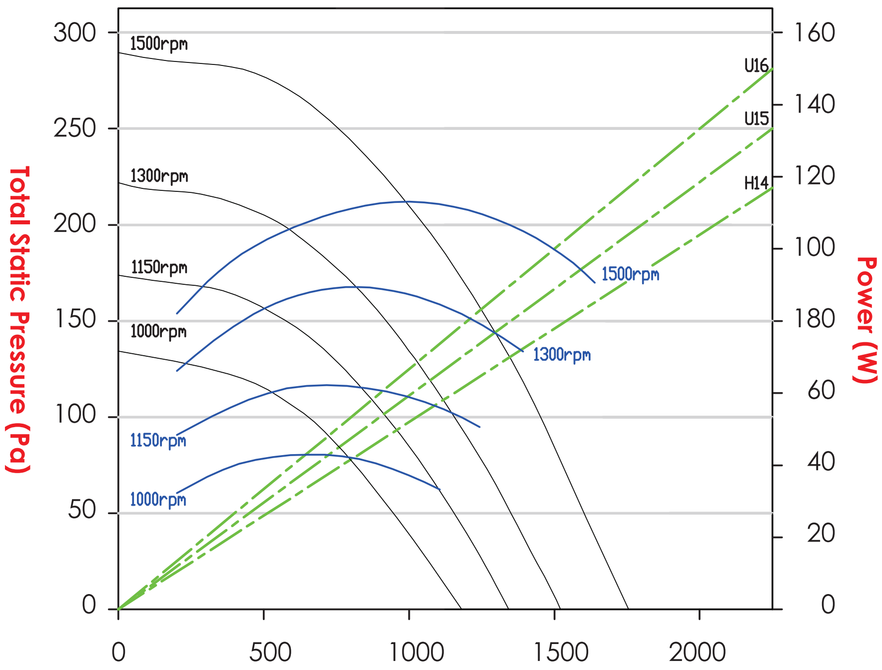
Total Static Pressure - Air Flow curve
Power - Air Flow curve
HEPA/ULPA filter initial pressure drop - Air Flow curve (Thickness: 70mm)

FFU

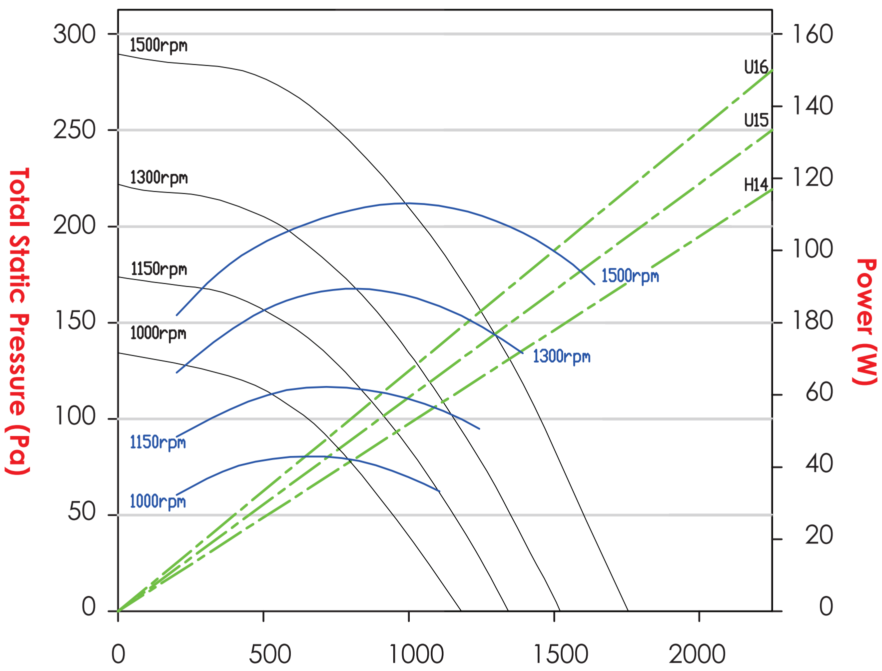
EC Motor



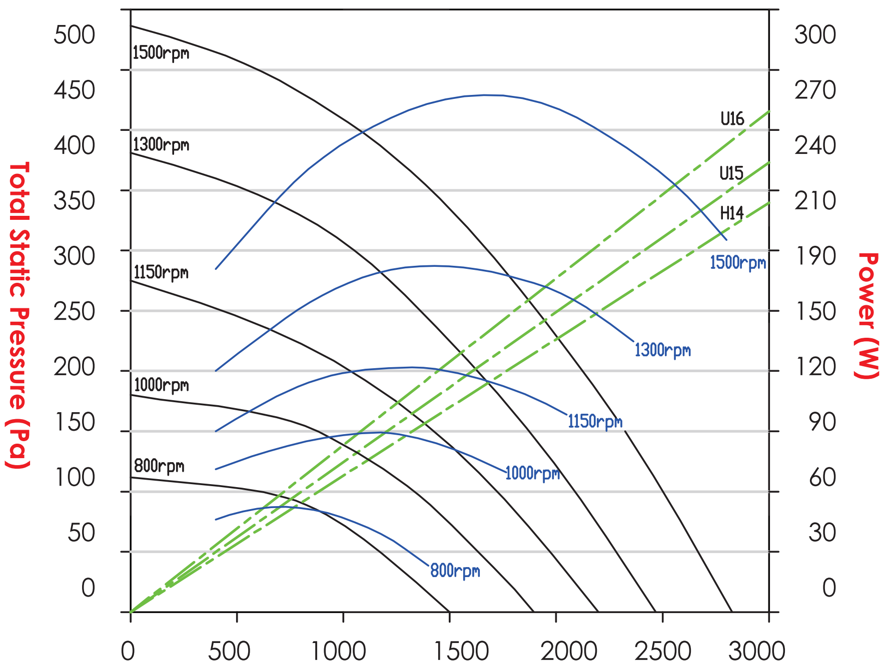
Air Flow (CMH)
FFU Performence Curve (F-22EL)



Air Flow (CMH)
FFU Performence Curve (F-23EL)



Air Flow (CMH)
FFU Performence Curve (F-24EL)

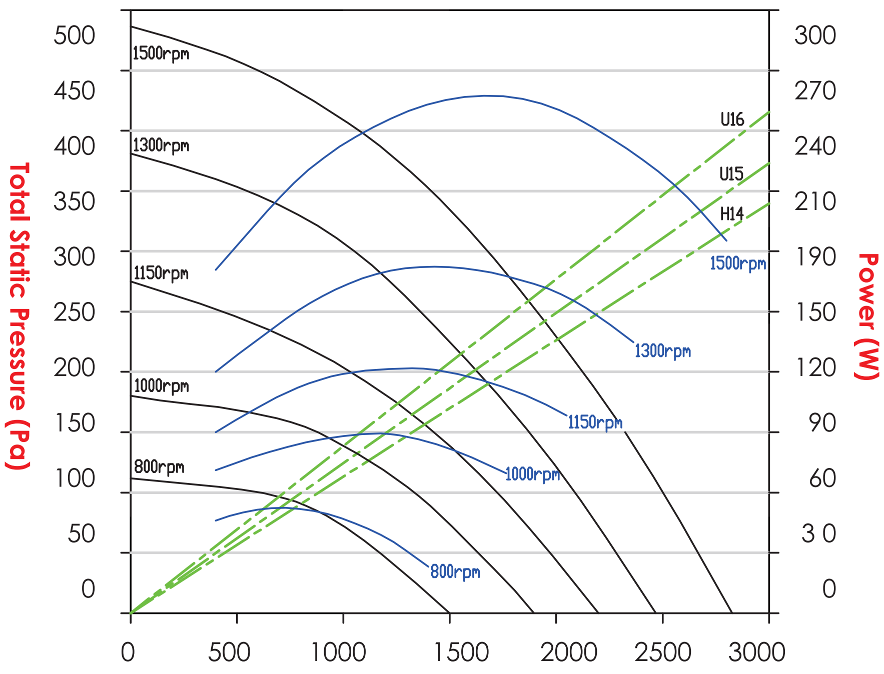


Air Flow (CMH)
FFU Performence Curve (F-24EM)

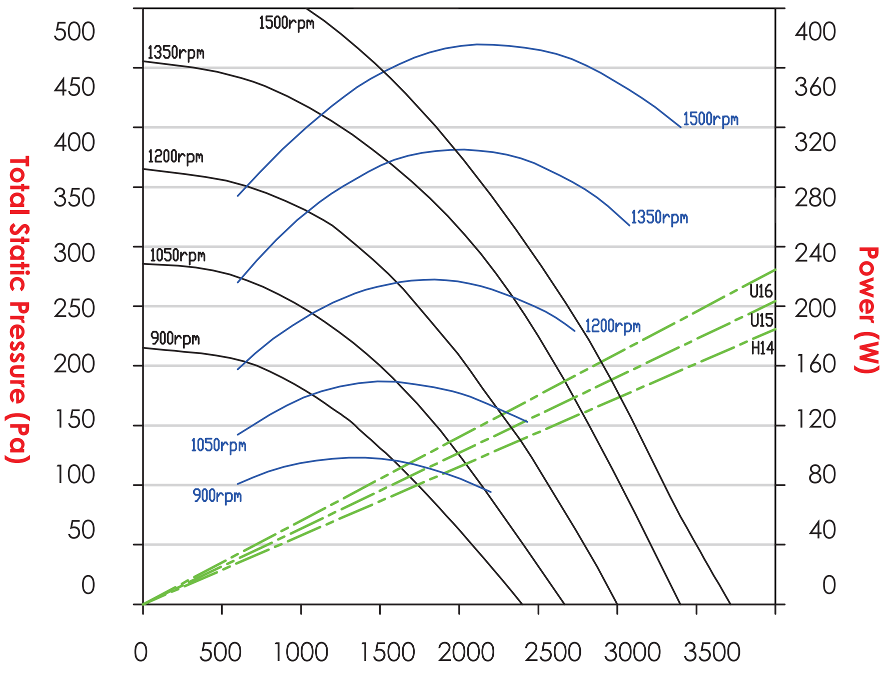
Total Static Pressure - Air Flow curve
Power - Air Flow curve
HEPA/ULPA filter initial pressure drop - Air Flow curve (Thickness: 70mm)

FFU

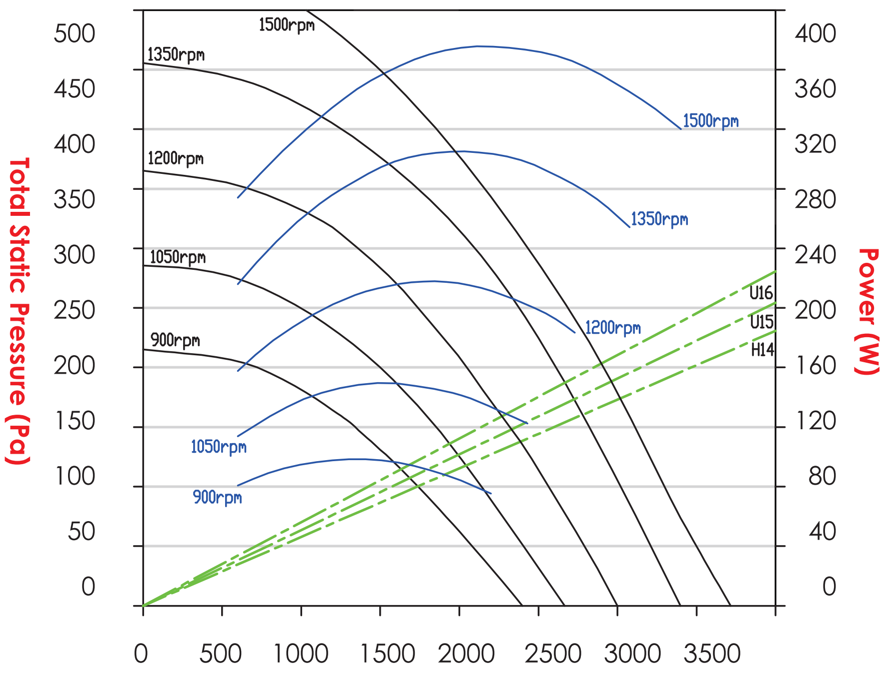
EC Motor



Air Flow (CMH)
FFU Performence Curve (F-34EM)



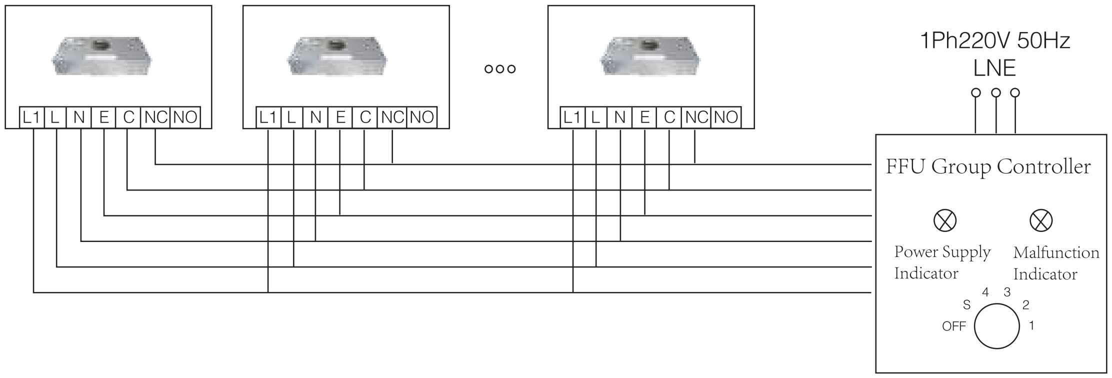
Air Flow (CMH)
FFU Performence Curve (F-34EH)



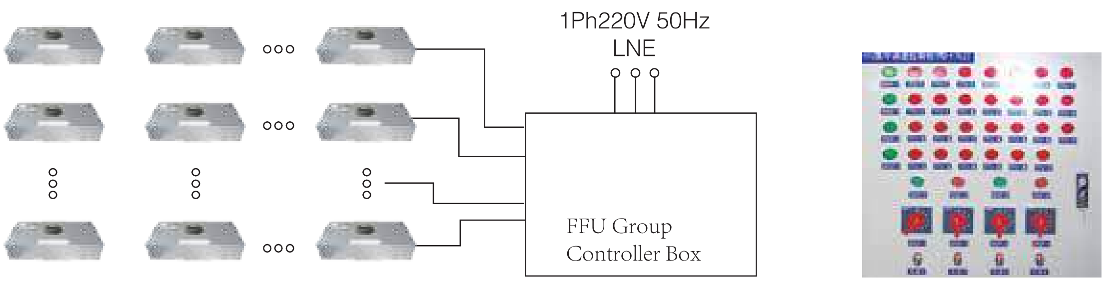
Air Flow (CMH)
FFU Performence Curve (F-44EH)

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

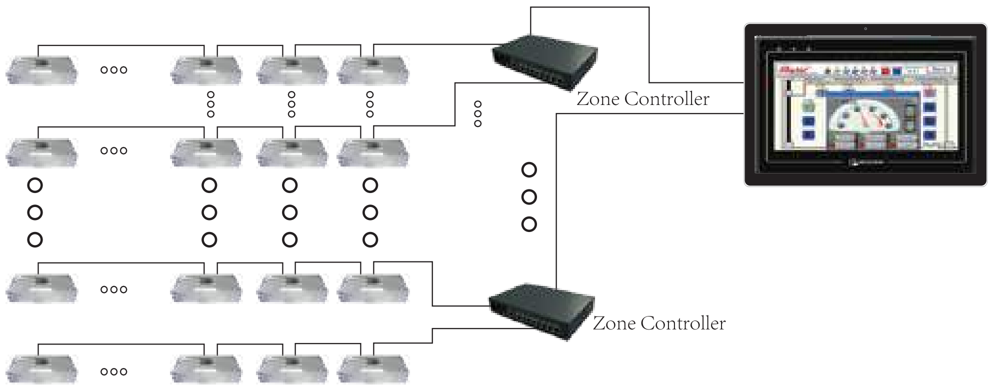
Group Controller



Multiple FFU Group Controller



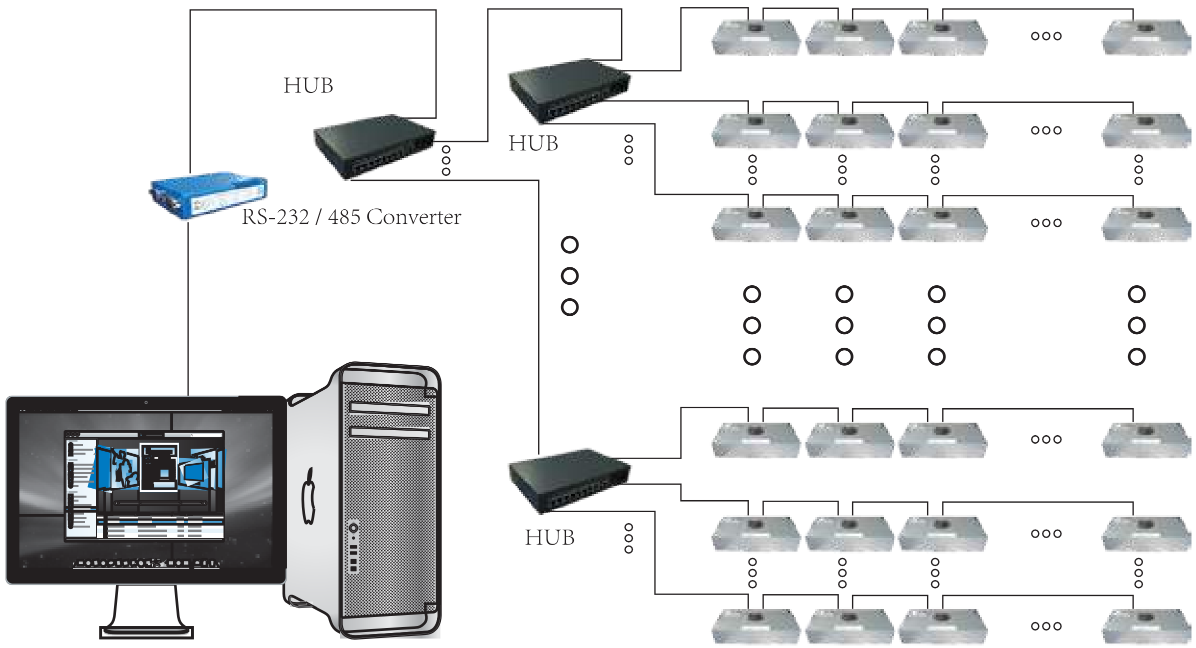
Multiple FFU Touch Screen Control

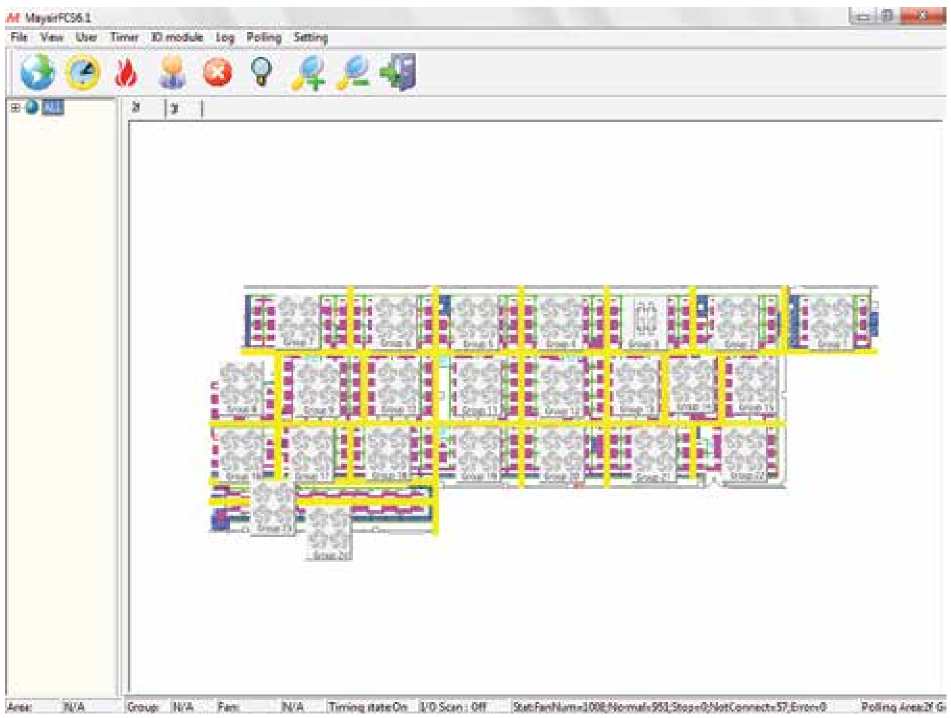


Product Features

- Reliable FFU alternating current control system.
- Group or single unit alarm indicator.
- 3-stage or 5-stsage fan speed controller.
- Over-current protection.
- RS-485 communication mode can perform. remote control on the systems.

MayAir FCS AC FFU Group Control System



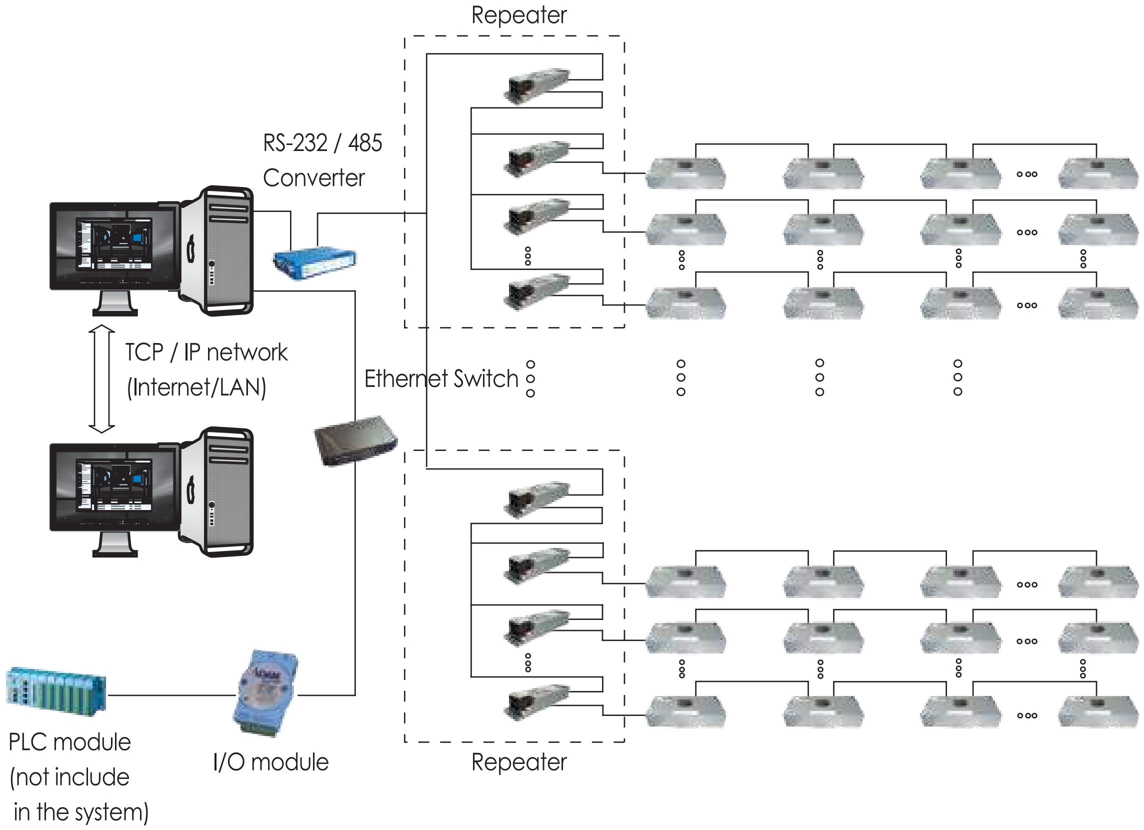


Product Features

- Overcomes large-scale FFU alternating current control problem with comprehensive functions.
- Multiple working areas/zones group control allows FFU that are distributed at different floors or different locations to be controlled according to working area/zone. It also allows FFU in same working area/zone but located in different room to be controlled according to group.
- RS-485 communication module, integrated hardware installation, system 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 of fan speed and FFU malfunction indicator allow accrate positioning of FFU and diagnose the fault message.
- Auto initialisation of FFU by group sequence prevents power supply disruption due to large-scale system being initiated synchrnously at the same time.
- 4-stage password control system allows a comprehensive and easy management of user.
- 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.

Clean Air • Our Future
www.mayairgroup.com

MayAir EFCS EC FFU Group Control System

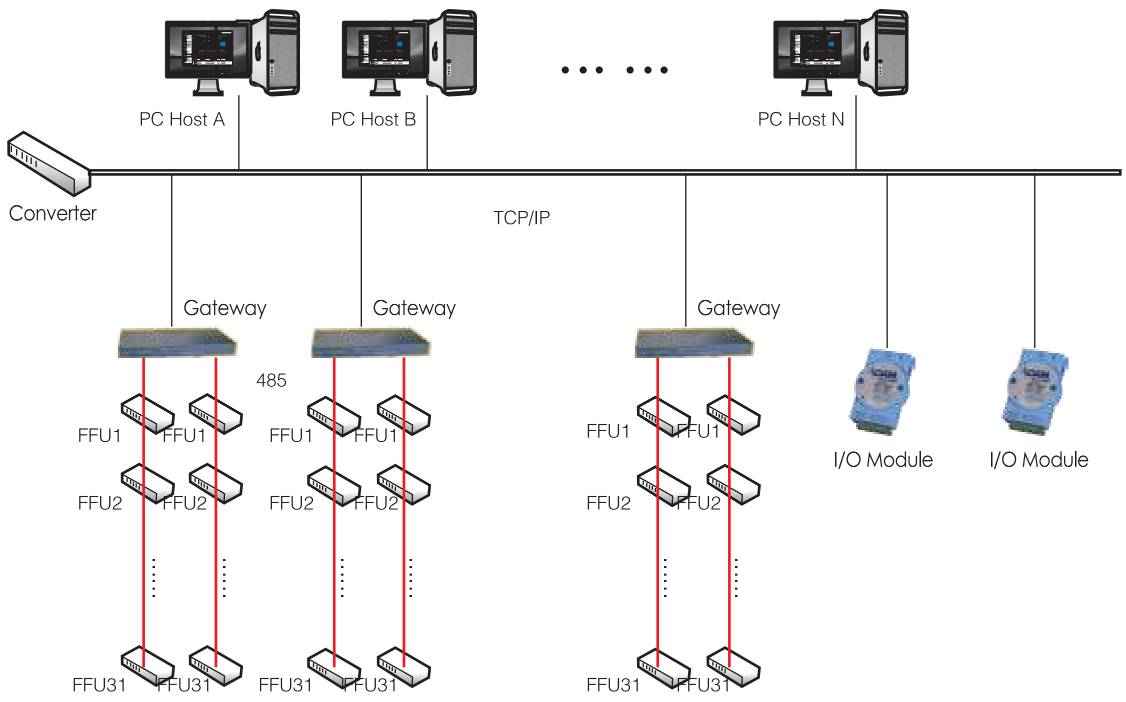


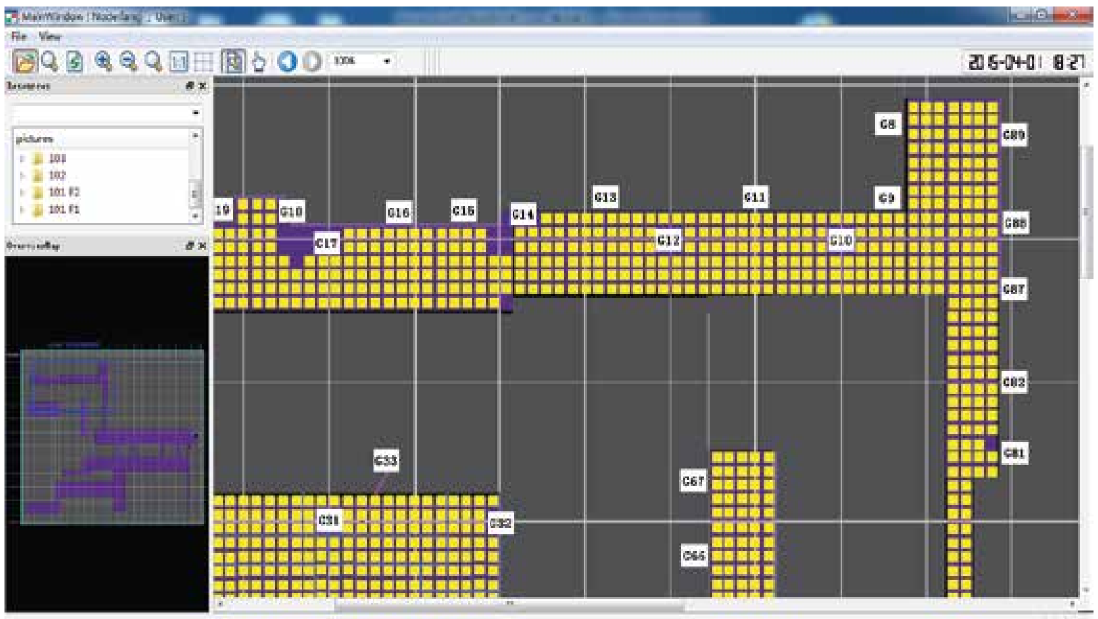
Product Features

- Multiple working areas/zones group control allows FFU that are distributed at different floors or different locations to be controlled according to working area/zone. It also allows FFU in same working area/zone but located in different room to be controlled according to group.
- RS-485 communication module, integrated hardware installation, system 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 of fan speed and FFU malfunction indicator allow accrate positioning of FFU and diagnose the fault message.
- User can monitor FFU through internet or intranet.
- 4-stage password control system allows a comprehensive and easy management of user.
- 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.

FFU

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 toom, area and all FFU control. This control is done by feature shown in software as individual/ port/ server/ all FFU.
- Mouseover function on FFU for speed and exact address display.
- Operationg and error log can be recorded by the system.
- Able to indicate individual FFU power consumption.
- Perform real-time statistic of FFU condition for the whole system.
- Timer setting function in MayAir FLONET
  Able to set FFU operation according to the working hours in factory.
- 3 level of authorities:
  Administrator, operator and guest for high security.

Straight Auto Roll Filter

Autoroll

Applications

Industrial

Commercial Building

General

Product Features

Operating Conditions

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

Frame

Material: Epoxy powder coated cold rolled steel

Media

Material: Synthetic fiber
Thickness: 10mm
Length: 15m (per 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

Air Flow (m^3/h)

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

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

V-Shaped Auto Roll Filter

Autoroll

Applications

- Industrial
- Commercial Building
- General

Product Features

Operating Conditions

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

Frame

Material: Epoxy powder coated cold rolled steel

Media

Material: Synthetic Fiber
Thickness: 10mm
Length: 15m (per 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

Air Flow (m^3/h)

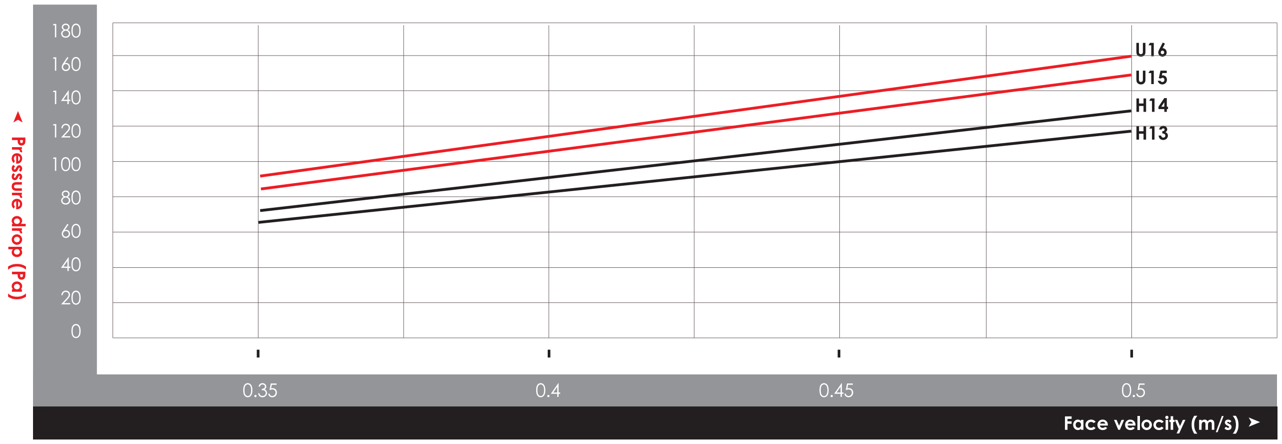
Total Filter Width	Total Filter Height										
Foot (mm)	5(1524)	6(1829)	7(2134)	8(2438)	9(2743)	10(3048)	11(3353)	12(3658)	13(3962)	14(4267)	15(4572)
03(914)	9620	13053	16487	19920	23354	26787	30221	33654	37088	40521	43955
04(1219)	13134	17822	22509	27197	31884	36572	41259	45947	50634	55322	60011
05(1524)	16649	22590	28532	34473	40415	46358	52299	58241	64182	7012	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

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

Disposable High Efficiency Ceiling Module

M-Cam

Graph of Initial Pressure Drop versus Face Velocity



Applications

- Semiconductor
- Micro-electronic
- Pharmaceutical & Laboratories
- General
- Food Processing Industry

Product Specifications

Dimension	Air Flow	Initial Pressure Drop at 0.45 m/s			
(mm)	(m³/h)	(Pa)			
WxHxD		H13	H14	U15	U16
610x1220x150	1116	100	110	125	140
610x1210x150	1110	100	110	125	140
570x1170x150	996	100	110	125	140
610x610x150	546	100	110	125	140
600x600x150	528	100	110	125	140
570x570x150	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.

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

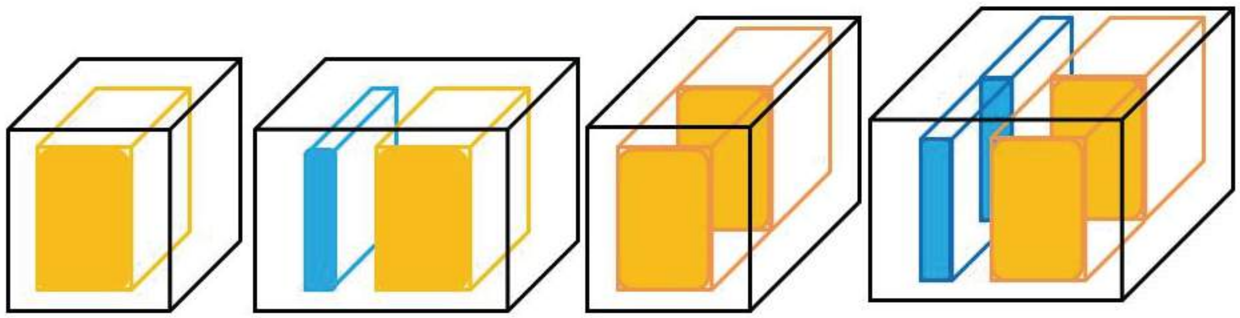
etc.

Thermal insulator: PE black insulation cotton

Others

Bag-In Bag-Out System
M-BIBO

Combination



A B C D

Applications

- Semiconductor
- Healthcare & Hospital
- Pharmaceutical & Laboratories
- Nuclear Power Plant
- Food Processing Industry
- Military Base

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.

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

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

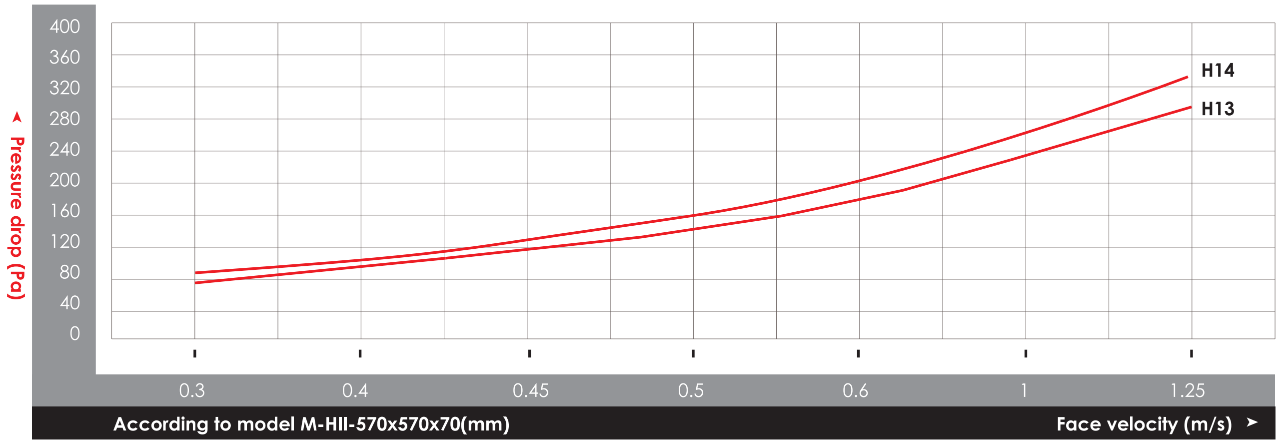
Faceguard
Material: Stainless steel (SUS 304) / epoxy powder coated SPCC / epoxy powder coated aluminium

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 Inet Collar Standard Height (mm)	Damper Standard Height (mm)
⌀ 250	60	230
⌀ 300	60	280
⌀ 350	60	330
⌀ 450	60	430

Product Specifications

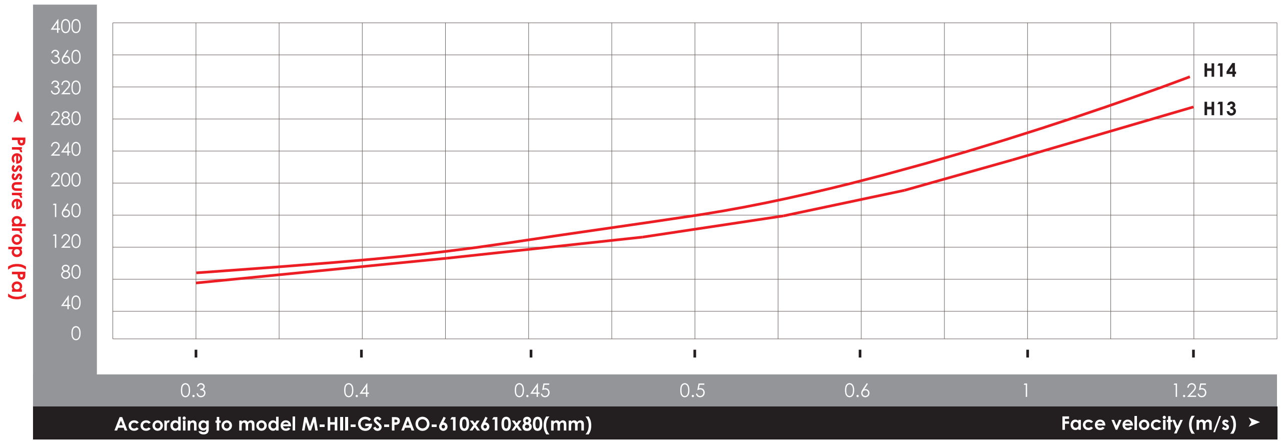
Filter Dimension	Casing Dimension (Top Air Inlet)	Casing Dimension (Side Air Inlet)	Air Flow at 1.2m/s	Air Inlet Collar Diameter	Rectangular Inlet Collar Dimension	Filter Initial Pressure Drop	
LxWxH(mm)	LxWxH(mm)	LxWxH(mm)	(m^3/h)	(mm)	(mm)	H13(Pa)	H14(Pa)
340x340x70	410x410x280	410x410x450	500	Φ250	200x200	280	300
340x340x90	410x410x300	410x410x450				250	270
484x484x70	554x554x280	554x554x450	1000	Φ300	300x200	280	300
484x484x90	554x554x300	554x554x450				250	270
610x610x70	680x680x280	680x680x450	1500	Φ350	400x200	280	300
610x610x90	680x680x300	680x680x450				250	270
870x570x70	940x640x280	940x640x450	2000	Φ350	500x200	280	300
870x570x90	940x640x300	940x640x450				250	270
1170x570x70	1240x640x280	1240x640x450	2500	Φ300*2 / Φ450*1	630x200	280	300
1170x570x90	1240x640x300	1240x640x450				250	270
1220x610x70	1290x680x280	1290x680x450	3000	Φ300*2 / Φ450*1	630x250	280	300
1220x610x90	1290x680x300	1290x680x450				250	270

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

Graph of Initial Pressure Drop versus Face Velocity



Applications

- Pharmaceutical & Laboratories
- Healthcare & Hospital
- General

Air Inlet Collar and Damper Dimension

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

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
etc.
Thermal insulator: PE

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	1000	300	300×200	180	205
610×610×100	680×680×300	680×680×450				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	2000	350	500×200	180	205
1220×610×100	1290×680×300	1290×680×450				150	170
1220×915×80	1290×985×280	1290×985×450	3000	Φ300*2 / Φ450*1	630×200	180	205
1220×915×100	1290×985×300	1290×985×450				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 Flow Hood (Mechanical-Sealed Type)

M-LC-MS

Applications

- Semiconductor
- Pharmaceutical & Laboratories
- Food Processing Industry

Product Features

Casing
Material: Stainless steel (SUS 304)

Filter Efficiency (EN1822:2009)
H14

Face Veloocity
0.36 - 0.54 m/s

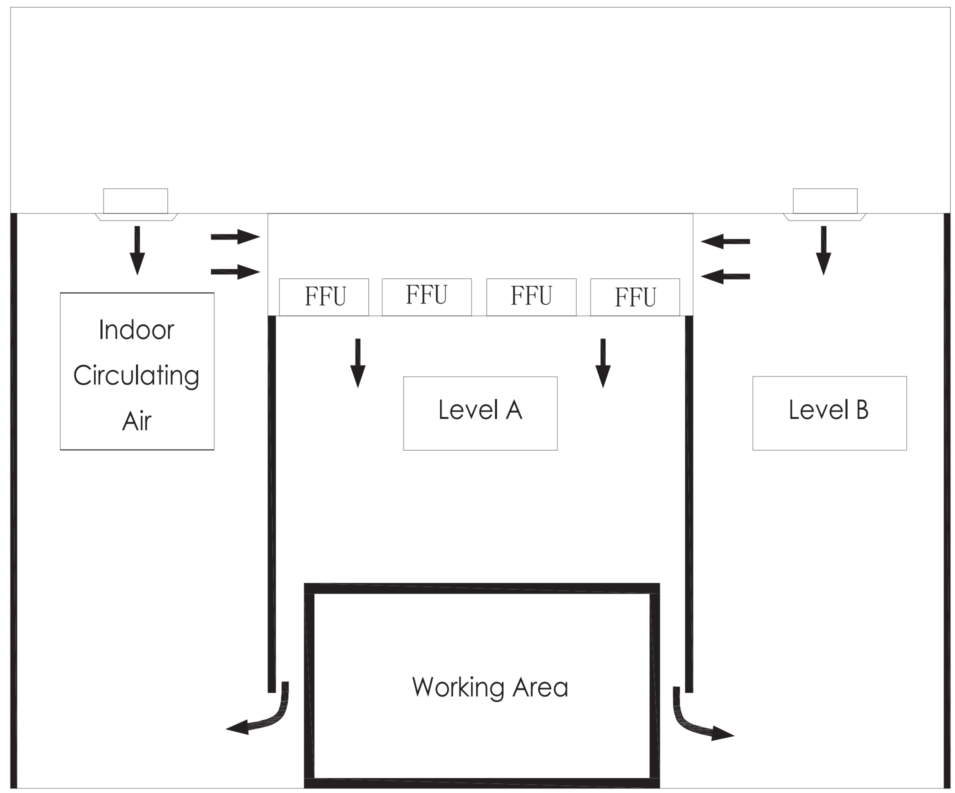
Cleanroom Class
Level A (according to GMP standard)

Light Supply

Sealing Type
Vacuum-sealed

Noise Level
≤ 65 dB(A)

Working Principle



Remarks: 1. Customize size are available upon request.

Laminar Flow Hood (Gel-Sealed Type)

M-LC-GS

Applications

- Semiconductor
- Pharmaceutical & Laboratories
- Food Processing Industry

Product Features

Casing
Material: Stainless steel (SUS 304)

Filter Efficiency (EN1822:2009)
H14

Face Veloocity
0.36 - 0.54 m/s

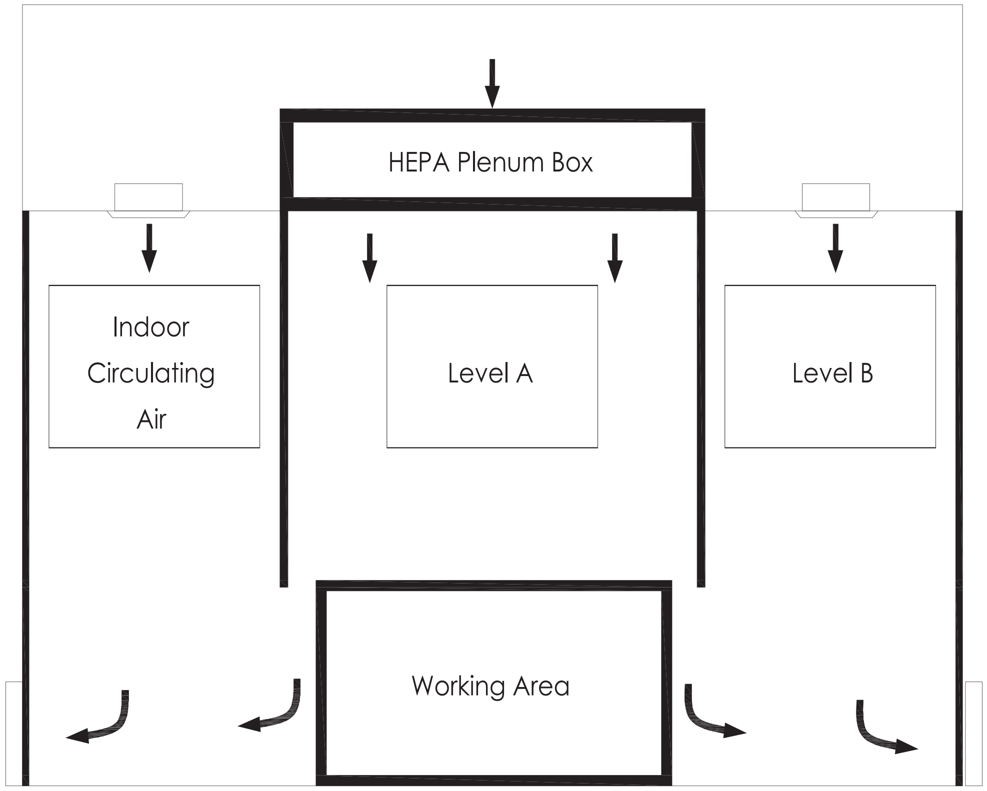
Cleanroom Class
Level A (according to GMP standard)

Light Supply

Sealing Type
Gel-sealed

Noise Level
≤ 65 dB(A)

Working Principle



Remarks: 1. Customize size are available upon request.

HEPA CAB
M-MOVLC

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

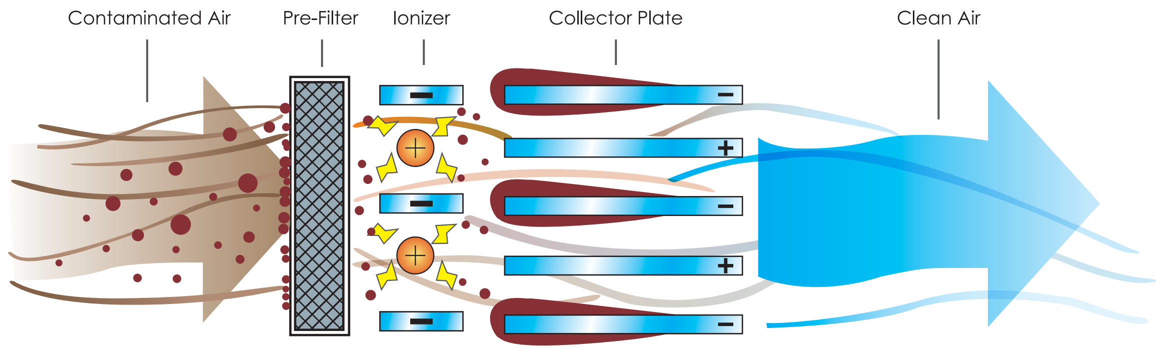
Electrostatic Air Cleaner
AC Series (AHU Standard Type)
M-EAC-AC-ST

CE

RoHS

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 partuculate matters will be adsorbed on the collection plates under high voltage, which further achives the sterilisation effect.



Applications

- Commercial Building
- General
- Healthcare & Hospital
- Industrial

Specifications List

Parameters	Unit	Single Ionic Cell	Double Ionic Cell	Double Ionic Cell (Vertical)
Serial Number		EAC-370x610x180-AC-ST	EAC-680x610x180-AC-ST	EAC-370x1114x180-AC-ST
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/0.20A
Output Voltage / Current	kV/mA	6.2kV/3.2mA	6.2kV/3.2mA	6.2kV/3.2mA
Power	W	32	39	39
Filtration Efficiency		F8	F8	F8
Initial Pressure Drop	Pa	20	20	20
Air Volume	m³/h	1700	3400	3400
Weight	kg	12	18	18

Product Features

Operating Conditions

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

Efficiency (EN779:2012)

F8 / MERV15 (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 15 years

Low Power Consumption

≤ 39W

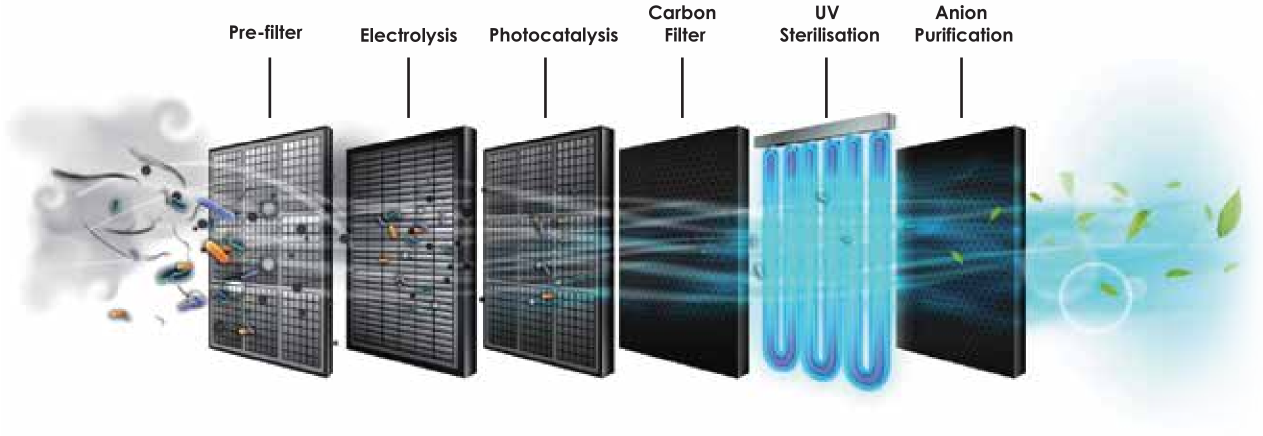
Low Initial Pressure Drop

20Pa

Electrostatic Air Cleaner (Compound Type)
AC Series (AHU Standard Type)
M-EAC-AC-CT

CE

RoHS



Applications

- Commercial Building
- General
- Healthcare & Hospital
- Industrial

Product Features

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

Efficiency (EN:779:2012)
F8 / MERV15 (ASHRAE 52.2)

Environmental Friendly
No secondary pollution as the CO_2 and H_2O are the only decomposition products.

Low Power Consumption

Low Initial Pressure Drop
30~40Pa at 2.5m/s

Product Specifications (46mm Metal Mesh)

Parameters	46mm Metal Mesh		
Serial Number	EAC-370x610x300-AC-CT	EAC-680x610x275-AC-CT	EAC-370x1114x275-AC-CT
Nominal Dimension (WxHxD/mm)	369x610x301	681x610x301	369x1114x302
Type	Single Ionic Cell	Double Ionic Cells	Double Vertical Ionic Cells
Number of Ionic Cell	1	2	2
Installation Arrangement	Vertical	Vertical	Vertical
Rated Air Volume (m³/h)	1700	3400	3400
Weight (kg)	16	22.5	22
Power Supply	220~240V/50Hz/1PH	220~240V/50Hz/1PH	220~240V/50Hz/1PH
Output voltage / Current	6.2KV/3.2mA	6.2KV/3.2mA	6.2KV/3.2mA
Initial Pressure Drop (Pa)	40Pa at 2.5m/s	40Pa at 2.5m/s	40Pa at 2.5m/s

Product Specifications (20mm Metal Mesh)

Parameters	20mm Metal Mesh		
Serial Number	EAC-370x610x275-AC-CT	EAC-680x610x275-AC-CT	EAC-370x1114x275-AC-CT
Nominal Dimension (WxHxD/mm)	369x610x275	681x610x275	369x1114x276
Type	Single Ionic Cell	Double Ionic Cells	Double Vertical Ionic Cells
Number of Ionic Cell	1	2	2
Installation Arrangement	Vertical	Vertical	Vertical
Rated Air Volume (m³/h)	1700	3400	3400
Weight (kg)	16	22.5	22
Power Supply	220~240V/50Hz/1PH	220~240V/50Hz/1PH	220~240V/50Hz/1PH
Output voltage / Current	6.2KV/3.2mA	6.2KV/3.2mA	6.2KV/3.2mA
Initial Pressure Drop (Pa)	30Pa at 2.5m/s	30Pa at 2.5m/s	30Pa at 2.5m/s

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

CE

RoHS

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-ST	EAC-280x954x110-FC-ST	EAC-523x551x110-FC-ST
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	7.4Pa at 1.25m/s	7.4Pa at 1.25m/s	7.4Pa at 1.25m/s
Weight	kg	5.5	9	9
Power	W	15	20	20
Power Supply	V/Hz/PH	220~240V/50Hz/1PH	220~240V/50Hz/1PH	220~240V/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	220~240V/50Hz/1PH	220~240V/50Hz/1PH	220~240V/50Hz/1PH
Output Voltage / Current	kV/mA	6.4kV/0.7mA	6.4kV/0.7mA	6.4kV/0.7mA

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

M-EAC-FC-BL

CE

Specifications List

Serial Number	Air Volume (m^3/h)	Number of Ionic Cell	Ionic Cell Dimension WxHxD (mm)	Input Voltage / Current (V/A)	Output Voltage / Current (V/A)	Weight (kg)
EAC-459x224x138-FC-BL	270	1	302x199x89	220V/0.145A	6.4V/0.7mA	6.2
EAC-567x224x138-FC-BL	370	1	410x199x89	220V/0.15A	6.4V/0.7mA	7.0
EAC-667*224*138-FC-BL	460	1	510x199x89	220V/0.155A	6.4V/0.7mA	7.8
EAC-767x224x138-FC-BL	550	1	610x199x89	220V/0.16A	6.4V/0.7mA	8.5
EAC-867x224x138-FC-BL	640	2	710x199x89	220V/0.165A	6.4V/0.7mA	9.3
EAC-975x224x138-FC-BL	740	2	818x199x89	220V/0.17A	6.4V/0.7mA	10.0
EAC-1175*224*138-FC-BL	920	2	1018x199x89	220V/0.19A	6.4V/0.7mA	11.5
EAC-1275x224x138-FC-BL	1010	2	1118x199x89	220V/0.195A	6.4V/0.7mA	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

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

M-EAC-DS-ST

CE

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 / MERV15 (ASHRAE 52.2)
Single pass efficiency (PM2.5): > 80%
Single pass efficiency (Microbes): > 90%

Indicators
Operation, cleaning and malfunction indicators

Low Power Consumption
≤ 39W

Low Initial Pressure Drop
20Pa

Air Flow Sensor

Washable
Washable ionic cell

Product Specifications

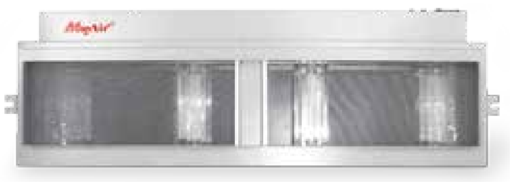
Parameters	Unit	Model	
Serial Number		EP-336x629x210-DS-ST	EP-650x629x210-DS-ST
Norminal Dimension (WxHXD)	mm	336x629x210	650x629x210
Number of Ionic Cell		1	2
Air Volume	m³/h	1700	3400
Pressure Drop	Pa	20Pa at 2.5m/s	20Pa at 2.5m/s
Weight	kg	13	22
Power	W	32	39
Input Voltage / Current	V/A	220~240V/50Hz/1Ph	220~240V/50Hz/1Ph
Output Voltage / Current	kV/mA	6.2kV/3.2mA	6.2kV/3.2mA

Photocatalytic Air Purification Unit

M-NML

Air Duct Type

Return Air Type



Fan Coil Unit Type

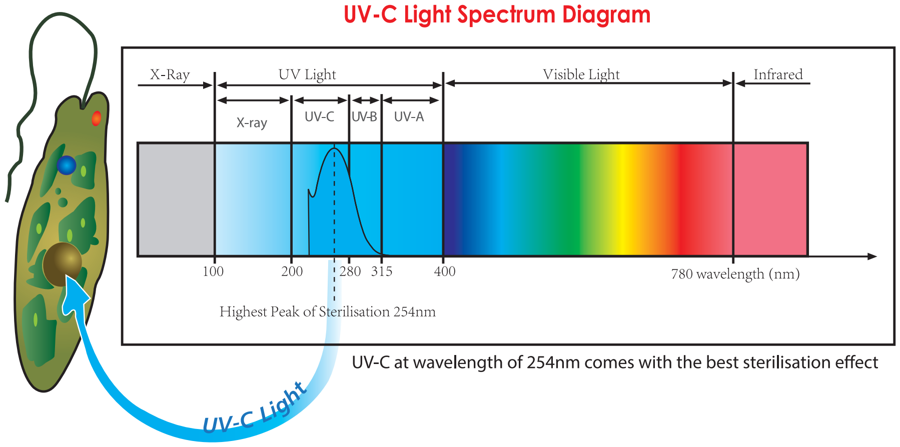
Singular Unit Type

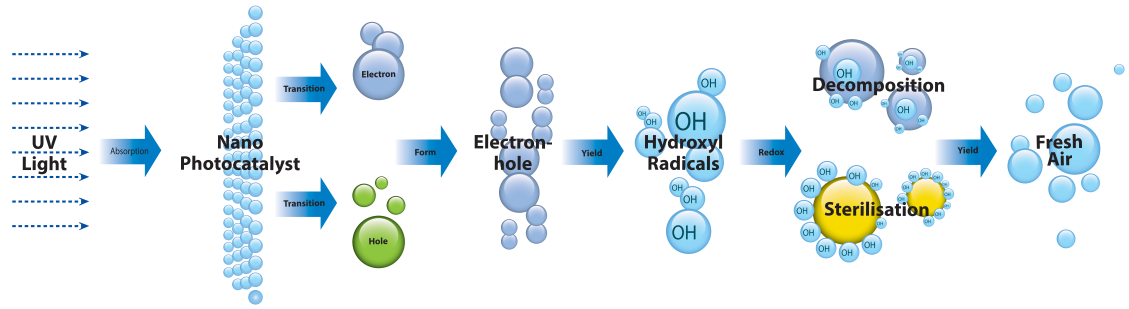
Principles

UV-C Light (Ultraviolet Sterilisation)
UV light can generally be catagorised into 4 different wavebands.
C waveband (UV-C): With sterilisation effect at the wavelength of 275-200 nm
UV light at the wavelength of 254nm comes with high germicidal effect as it can be easily absorbed by living organisms. The photon energy ables to disintegrate DNA and RNA molecular structure of microorganisms. By breaking the structure through photochemical reaction, the microorganisms lose the ability to reproduce and thus leading to death of the cells.

Photocatalytic (Photocatalyst)
Nano photocatalyst is activated when specific wavelength of light is emitted and utilised. This will lead to the generation of electron-hole pairs and it then allows the photo-catalyst to react with the 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.

UV-C Light Spectrum Diagram





Applications

- Commercial Building
- General
- Healthcare & Hospital
- Industrial

Product Features

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

Characterlistics

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.
- Utilises high power dual-band 254nm wavelength UV light without ozone content. Sterilisation efficiency is higher than 95% and UV light lamp can last more than 12000 hours.
- The catalyst utilises titanium oxide and high temperature film coating technlogy that further optimises the photocat-alytic activities.
- Manual or automatic switch with air flow sensor which synchronises operation with the fan unit are available.

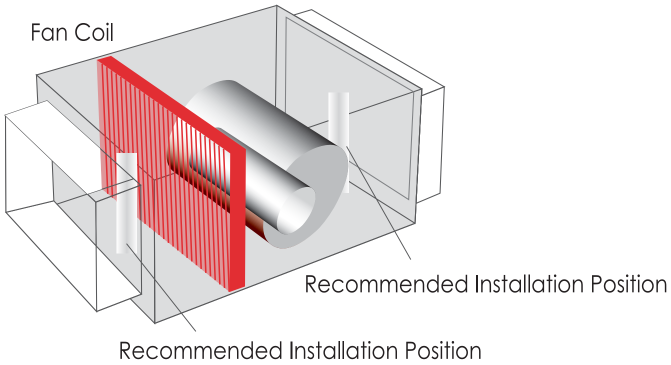
Nano Photocatalytic Purification Unit (Case Type)
- Variable designs available to cater various installation constraints.
- Installed with multiple high power dual-band 185nm & 245nm wavelengths UV-C lamp and TiO_2 filter. The power of each individual UV lamp is greater than 15W, to ensure effective sterilisation throughout the AHU.
- Individual control box is available with manual or automatic switch. Remote control BA port, LCD screen, synchronised operation with the fan unit and building monitoring system are also optional.

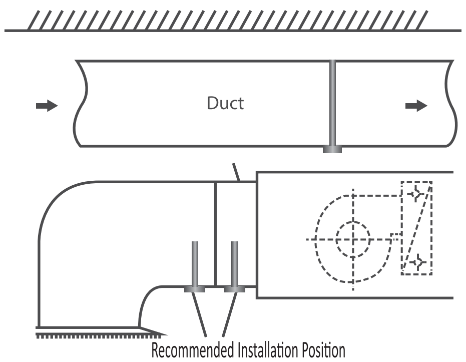
Photocatalytic Air Purification Unit

M-NML

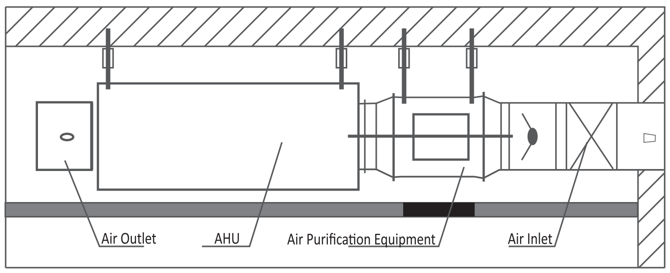
Installation Diagram

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





Nano Photocatalytic Purification Unit (Case Type) Installation Diagram



Product Specifications (Single-Ended Probe)

Application Scope	Model	Air Volume (m³/h)	Outer Dimension (with ballast) Length x Diameter (mm x ±2%)	Voltage (V) / Power (W)
Fan coil unit / Air duct / AHU / PAU / MAU	M-NML-5	≤2000	200x50	220/5
	M-NML-15	2001~6000	360x50	220/15
	M-NML-23	6001~8000	490x50	220/23
	M-NML-30	8001~20000	680x50	220/30

Product Specifications (AHU Type)

Serial Number	Air Volume (m³/h)	Air Speed (m/s)	Outer Dimension WxHxD (mm)	Voltage (V)	Power (W)
NML-610x610x80-ZK	2000~3400		610x610x120		40
NML-610x305x80-ZK	800~1700		610x305x120		12
NML-305x610x80-ZK	1000~1700	2.5m/s	305x610x120	AC220V/50Hz	20
NML-610x490x80-ZK	1500~2700		610x49x120		30
NML-490x610x80-ZK	1800~2700		490x610x120		40

Remarks: 1. Can be used as an independant air purification system.
2. Compatitle with any brand of AHU system, custommised sizes are available upon request.

Product Specifications (Air Duct Type)

Serial Number	Air Volume (m³/h)	Air Speed (m/s)	Outer Dimension WxHxD (mm)	Voltage (V)	Power (W)
NML-790x625x300-DS	3000~5200		790x625x300		60
NML-1065x625x300-DS	3000~7200		1065x625x300		60
NML-1315x625x300-DS	4500~9000		1315x625x300		90
NML-865x425x300-DS	2000~3500	4m/s	865x425x300	AC220V/50Hz	40
NML-1565x1125x300-DS	12000~21600		1565x1125x300		160
NML-2065x1125x300-DS	16000~28800		2065x1125x300		240

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)	Air Speed (m/s)	Outer Dimension WxHxD (mm)	Voltage (V)	Power (W)
NML-560x320x120-FC	600~2220		560x320x120		12
NML-860x320x120-FC	900~3000		860x320x120		12
NML-1260x320x120-FC	1600~3700		1260x320x120		24
NML-760x258x120-FC	900~1650	1.25m/s	760x258x120	AC220V/50Hz	12
NML-960x258x120-FC	1250~7920		960x258x120		18
NML-1160x258x120-FC	1600~10450		1160x258x120		24

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

Electrostatic Air Cleaner
Ultrasonic Cleaning Equipment
M-XLNA

CE

Applications

- Commercial Building
- General
- Healthcare & Hospital
- Industrial

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

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 effciency 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 it. Check the filter efficiency after cleaning.

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

Electrostatic Air Cleaner
Air Duct Type
M-EFP-FE400

Applications

- Commercial Building
- General
- Healthcare & Hospital
- Industrial

Product Features

High Efficiency
PM2.5 remover efficiency: >90%

Long Service Life

Low Energy Consumption
35W

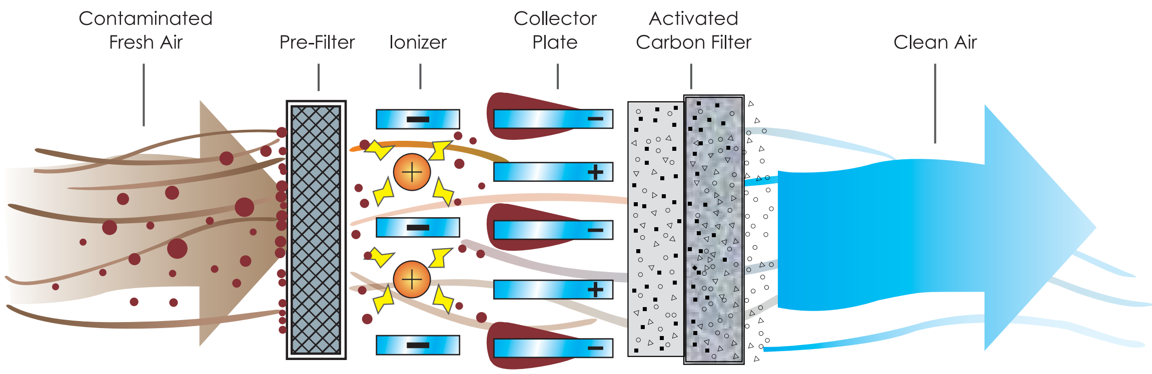
Low Initial Pressure Drop
25Pa

Washable
Washable ionic cell

Principles

Contaminated Fresh Air
Outdoor contaminated fresh air is first passed through pimary filter to remove large particles and directed into the electronic ionization and collector plates to remove other tiny particles. The air is then passeed through the heat exchanger and mixed together with the indoor return air. Lastly, the conditioned air will passeed through the activated carbon filter before entering the room again.

Exhaust Air
Contaminated return air is transfred by an exhaust fan and diverted into heat exchanger to undergo heat exhange process with the fresh air taken in. Upon the heat recovery, contaminated return air will be exhausted out.



Product Specifications

Outer Dimension WxHxD (mm)	Air Volume (m^3/h)	Power Supply	Power (W)	PM2.5 Efficiency	Sterilisation Efficiency	Pressure (Pa)
645x465x340	1500	220V/50Hz	35	≥90%	≥90%	25

Fresh and Return Air Ventilator
M-EFP-XFE400

Applications

- Commercial Building
- General
- Healthcare & Hospital
- Industrial

Product Features

High Efficiency
PM2.5 remover efficiency: >90%

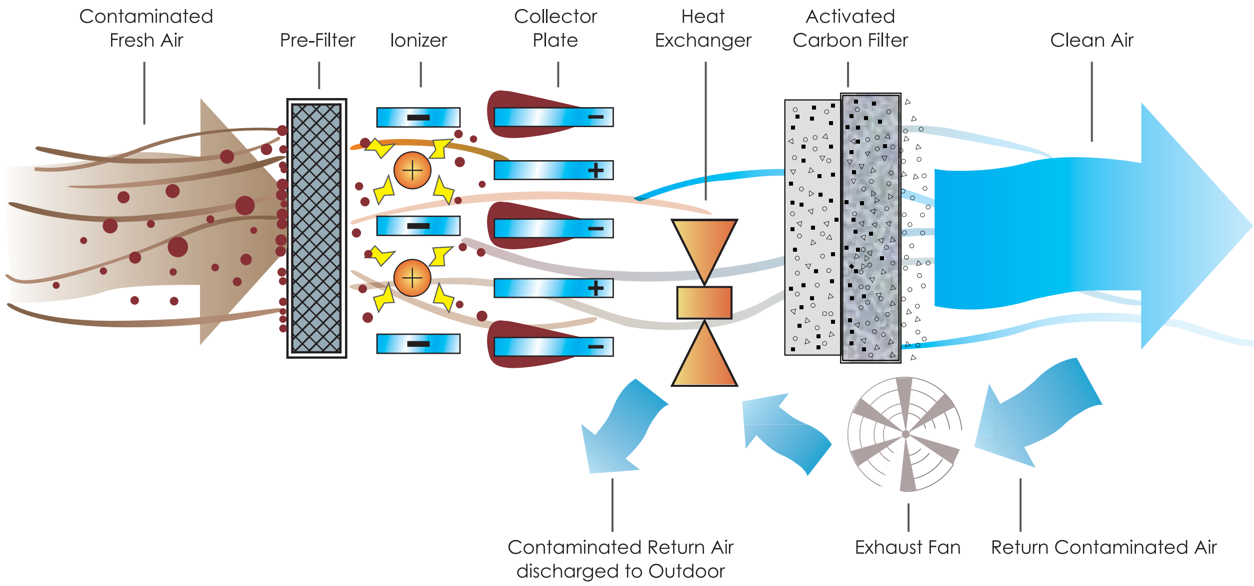
Long Service Life

Low Energy Consumption
300W

Principles

Contaminated Fresh Air
Outdoor contaminated fresh air is first passed through pimary filter to remove large particles and directed into the electronic ionization and collector plates to remove other tiny particles. The air is then passeed through the heat exchanger and mixed together with the indoor return air. Lastly, the conditioned air will passeed through the activated carbon filter before entering the room again.

Exhaust Air
Contaminated return air is transfred by an exhaust fan and diverted into heat exchanger to undergo heat exhange process with the fresh air taken in. Upon the heat recovery, contaminated return air will be exhausted out.



Specifications List

Item	Parameters			
Model	Ventilators			
Outer Dimension	1000 x 580 x 230 (Not including air inlet & outlet 50 + 60)			
Power Input	220~240V/50Hz/1PH			
Air Velocity	Fresh Air: Return Air:	5.3m/s (Low) 4.9m/s (Low)	9.1m/s(Medium) 7.2m/s(Medium)	>10m/s(High) 8.8m/s(High)
Air Volume	Fresh Air:	215(Low)	370(Medium)	450(High)
Efficiency	F8			
PM2.5 Efficiency	>90%			
Power		86.6W (Low)	109.5W(Medium)	145.6W(High)
Sound Level	38~52dB(A)			

Kitchen Exhaust System
Ozone Generator

M-K-Oz

Applications

- Commercial Building
- Food Processing Industry
- General

Product Features

Operating Conditions

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

Structure / Arragement

Ultra slim and compact design

Frame

Material: Anodised aluminium

Efficiency (Factor 1:1)

Oil smell removal: 70%
Oil vapour removal: 60%
Cooking smell removal: 85%
Grease accumulation removal: 65%
(Removal efficiency will be scaled up according to the factor)

Working Principle

Highly-activated ozone molecules are produced under high voltage to remove ultra small paticles, for instance, odor and grease.

Product Specifications

Product Model	Actual Dimension	Air Volume	No. of PDP	Ozone Capacity	Power Consumption	Voltage	Weight
	(mm)	(m^3/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
Cleanaust Electronic Air Cleaner

M-K-ECD

Product Specifications

Product Model	Actual Dimension (mm) WxHxD	Air Volume (m³/h)	No. of Ionizer (pcs)	Initial Pressure Drop (Pa)	Power Consumption (Watt)	Voltage (V/Hz)	Weight (kg)
M-K-ECD01A	630x540x550	4000	1	50~100	35	220V/50Hz	56
M-K-ECD02A	1090x540x550	8000	2	50~100	45	220V/50Hz	84
M-K-ECD03A	1550x540x550	12000	3	50~100	70	220V/50Hz	126
M-K-ECD04A	2010x540x550	16000	4	50~100	80	220V/50Hz	168
M-K-ECD05A	2470x540x550	20000	5	50~100	90	220V/50Hz	210
M-K-ECD01P	630x540x550	2000	1	50~100	35	220V/50Hz	56
M-K-ECD02P	1090x540x550	4000	2	50~100	45	220V/50Hz	84
M-K-ECD03P	1550x540x550	6000	3	50~100	70	220V/50Hz	126
M-K-ECD04P	2010x540x550	8000	4	50~100	80	220V/50Hz	168
M-K-ECD05P	2470x540x550	10000	5	50~100	90	220V/50Hz	210

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

Applications

- Commercial Building
- Food Processing Industry
- General

Product Features

Operating Conditions
Continuous operating temperature: Max 200°C
Continuous relative humidity: ≤100 (%RH)

Efficiency (Factor 1:1)
Dust spot test: Up to 95%
Cold PAO test: Up to 95%
Able to remove particle with the size up to 0.01μm

Indicators
Operation, cleaning and malfunction indicators

Long Service Life
Up to 15 years

Low Power Consumption

Low Initial Pressure Drop

Online Monitoring System

M-OMS

Product Specifications

Parameter	Measurement Range	Precision	Accuracy
PM2.5	0~300$\mu g/m^3$	1$\mu g/m^3$	±10%
PM10	0~300$\mu g/m^3$	1$\mu g/m^3$	±10%
CO^2	0~2000PPM	20PPM	±75PPM
HCHO	0~5PPM	0.01PPM	0.03PPM
Temperature	5~45°C	0.1°C	±1°C
Relative Humidity	5~99%	1%	±1%

Applications

- Commercial Building
- Food Processing Industry
- General

Product Features

Operating Conditions

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

Structure / Arragement

Ultra slim and compact design

Nominal Size

M-OMS-M1.0: 450.4x335x61(mm)
M-OMS-T1.0: 264x164x48(mm)

Working Principle

Real-time online monitoring system with data trend analysis.
Able to connect to State AQI Portal for easy comparisons of real-time data.

Optional Accessories

42" Plasma television
Multi-points parameter detectors
English/ Chinese programming system
Customized profile and layout

Germicidal Air Purifier

D-Breath Series

CE

Clean Air • Our Future
www.mayairgroup.com

MayAir®

Product Specifications (Ceiling-mounted Type)

Product Name	Units	D-Breath 4				
Casing Material		Powder Coated Steel Alloy, ABS Plastic Panel				
Dimension (WxHxD)	mm	850x850x494				
Colour		Pearl-White				
Display Panel		Filter replacement, Fan mode				
Speed		Sleep	Low	Medium	High	Turbo
Air Volume	m^3/h	115	145	255	550	725
Noise Level	dB(A)	33	38.5	47	58	62
Power Consumption	W	13	15	30	92	159
Power Input		1PH / 220V / 50Hz				
Recommended Area Served	m^2	60				
Filtration Cycle / Hour		5 times				
Controller		Touch panel, Infared remote control, Smart app, 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 effeciency: 99.9%
Clean Air Output Ratio (CADR): 510.66m^3/h

Low Energy Consumption

Low Noise Level

Anti-bacterial Or Anti-fungal Growth

Germicidal Air Purifier

D-Breath Series

Applications

Commercial Building

Healthcare & Hospital

General

Product Features

Structure/Arrangement

Filter arrangement: Pre-filter, ionic silver germicidal HEPA, chemical filter

Efficiency

PM2.5 purification effeciency: 99.90%
Gaseous pollutant removal efficiency: 90%
Sterilization efficiency (Staphylococcus albus): 99.89%
Clean Air Output Ratio (CADR): 1159.92m³/h

Low Energy Consumption

Low Noise Level

Anti-bacterial Or Anti-fungal Growth

Product Specifications (Stand Alone Type)

Product Name	Units	D-Breath 5.1		
Casing Material		Powder Coated Steel Alloy		
Dimension (WxHxD)	mm	960x1585x170		
Colour		Pearl-White / Champagne-Gold		
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	m²	1PH / 220V / 50Hz		
Recommended Area Served		95		
Filtration Cycle / Hour		5 times		
Controller		Touch panel		

Product Specifications (Stand Alone Type with Advanced Display Panel)

Product Name	Units	D-Breath 5.2				
Casing Material		Powder Coated Steel Alloy				
Dimension (WxHxD)	mm	960x1585x170				
Colour		Pearl-White/ Champagne-Gold				
Display Panel		PM2.5, TVOC, Filter replacement, Fan mode				
Speed		Sleep	Low	Medium	High	Turbo
Air Volume	m³/h	200	335	670	950	1500
Noise Level	dB(A)	32	39	47	52	61
Power Consumption	W	15	18	41	85	206
Power Input		1PH / 220V / 50Hz				
Recommended Area Served	m²	95				
Filtration Cycle / Hour		5 times				
Controller		Touch panel, Infared remote control, Smart app				

Product Specifications (Ceiling-mounted Type)

Product Name	Units	D-Breath 6				
Casing Material		Powder Coated Steel Alloy				
Dimension (WxHxD)	mm	932x1563x213				
Colour		Pearl-White / Champagne-Gold				
Display Panel		PM2.5, TVOC, Filter replacement, Fan mode				
Speed		Sleep	Low	Medium	High	Turbo
Air Volume	m³/h	267	380	712	1292	1612
Noise Level	dB(A)	33	39.9	48.1	57.7	62.3
Power Consumption	W	15	18	41	85	206
Power Input		1PH / 220V / 50Hz				
Recommended Area Served	m²	95				
Filtration Cycle / Hour		5 times				
Controller		Touch panel, Infared remote control, Smart app, Group control system				

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

Germicidal Air Purifier

D-Guard Series

Applications

- Pharmaceutical & Laboratories
- Healthcare & Hospital
- General

Product Features

Structure/Arrangement

Filter arrangement: Pre-filter, chemical filter, ArgenZil HEPA filter

Efficiency

PM2.5 purification effeciency: 99.90%
Gaseous pollutant removal efficiency: 90%
Sterilization efficiency (Staphylococcus albus): 99.89%
Clean Air Output Ratio (CADR): 1159.92m³/h

Low Energy Consumption

Low Noise Level

Anti-bacterial Or Anti-fungal Growth

Product Specifications (Stand Alone Type with Advanced Display Panel)

Product Name	Units	D-Guard 5				
Casing Material		Powder Coated Steel Alloy				
Dimension (WxHxD)	mm	960x1585x170				
Colour		Pearl-White / Champagne-Gold				
Display Panel		PM2.5, TVOC, Filter replacement, Fan mode				
Speed		Sleep	Low	Medium	High	Turbo
Air Volume	m^3/h	200	335	670	950	1500
Noise Level	dB(A)	32	39	47	52	61
Power Consumption	W	15	18	41	85	206
Power Input		1PH / 220V / 50Hz				
Recommended Area Served	m^2	95				
Filtration Cycle / Hours		5 times				
Controller		Touch panel, Infared remote control, Smart app				

Product Specifications (Ceiling-mounted Type)

Product Name	Units	D-Guard 6				
Casing Material		Powder Coated Steel Alloy				
Dimension (WxHxD)	mm	932x1563x213				
Colour		Pearl-White / Champagne-Gold				
Display Panel		PM2.5, TVOC, Filter replacement, Fan mode				
Speed		Sleep	Low	Medium	High	Turbo
Air Volume	m^3/h	267	380	712	1292	1612
Noise Level	dB(A)	33	39.9	48.1	57.7	62.3
Power Consumption	W	15	18	41	85	206
Power Input		1PH / 220V / 50Hz				
Recommended Area Served	m^2	95				
Filtration Cycle / Hour		5 times				
Controller		Touch panel, Infared remote control, Smart app, Group control system				

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

Intelligent Fresh Air System

D-Genius

Applications

- Commercial Building
- Residential
- General

Product Features

Structure/Arrangement
Filter arrangement: Pre-filter, HEPA filter, chemical filter

Efficiency
PM2.5 purification effeciency: 98%
Total heat exchange recovery: Max. 83%

Low Energy Consumption

Low Noise Level

Anti-bacterial Or Anti-fungal Growth

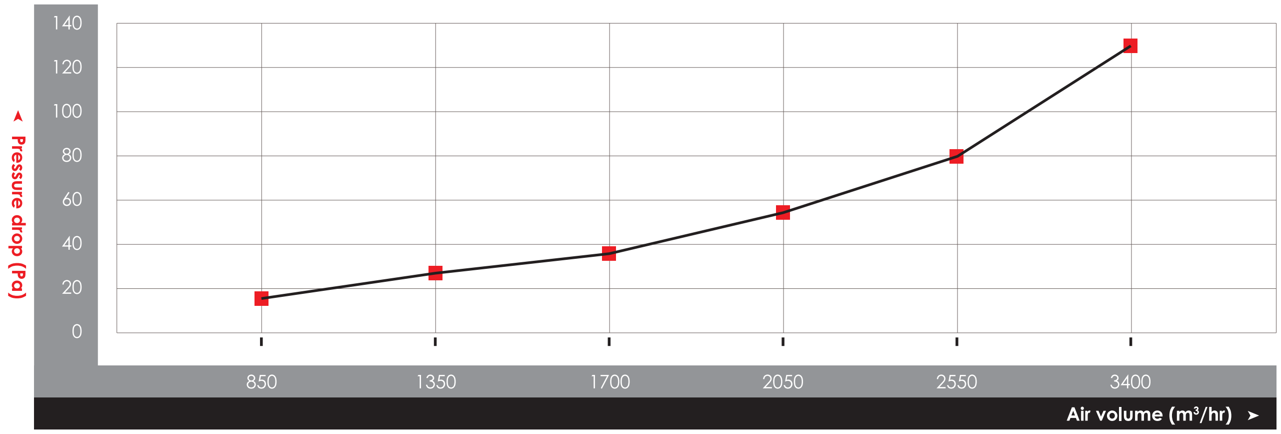
Product Specifications (Wall-mounted Type)

Product Name	Units	D-Genius			
Casing Material		Powder Coated Steel Alloy			
Dimension (WxHxD)	mm	495x950x236			
Weight	kg	48			
Colour		Pearl-White / Champagne-Gold			
Display Panel		PM2.5, TVOC, Filter replacement, Fan mode			
Mode		Fresh Air Purification	Return Air Exhaust	Ventilation	Recirculation
Air Volume	m^3/h	405	183	405	405
Noise Level	dB(A)	57	46	54	58
Power Consumption	W	85	20	109	87
Timer	hour	1,2,4,8,12			
Recommended Area Served	m^2	40-100			
Control mode		Manual, automatic, sleep			
Controller		Touch panel, Infared remote control, Smart app			

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

Odourfil-D

Graph Of Initial Pressure Drop Versus Air Volume



Applications

Commercial Building

Product Specifications

Nominal Dimension	Actual Dimension	Pleats	Media Area	AC Weight	Air Flow	Resistance
(inch)	(mm)	(Pleats Number)	(m^2)	(kg)	(m^3/hr)	(Pa)
WxHxD	WxHxD					
24x24x2	592x592x46	33	1.9	0.76	3400	130
12x24x2	290x592x46	16	0.9	0.36	1700	130

Remarks: AC = Activated Carbon

Product Features

Operating Conditions

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

Frame

Material: Beverage board

Filter Type

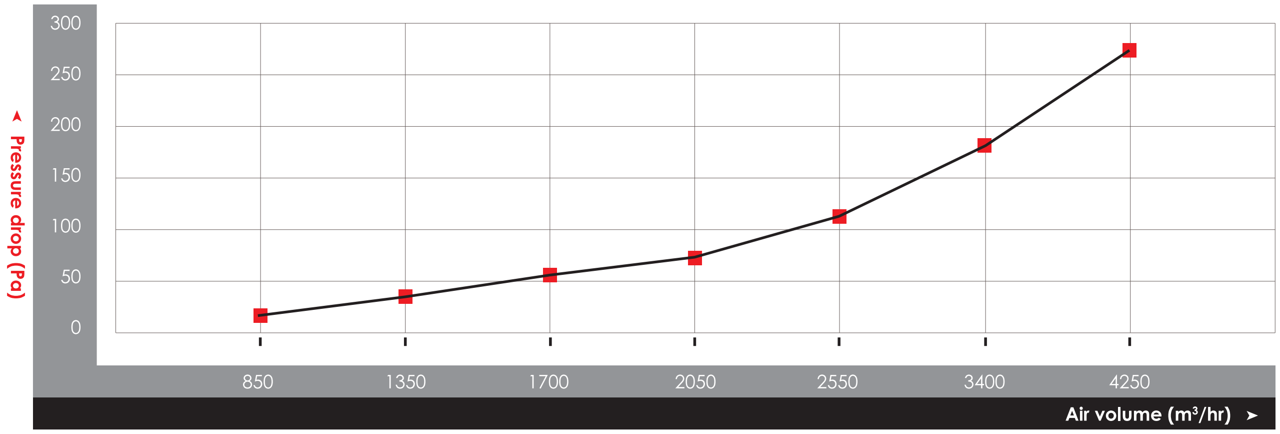
Disposable

Sealant

Material: Hot melt glue

Odourfil-R

Graph Of Initial Pressure Drop Versus Air Volume



Applications

Commercial Building

Product Specifications

Nominal Dimension	Actual Dimension	Media Area	AC Weight	Air Flow	Resistance
(inch)	(mm)	(m^2)	(kg)	(m^3/hr)	(Pa)
WxHxD	WxHxD				
24x24x12	595x595x295	10.7	10	3400	180
12x24x12	290x595x295	5.2	5	1700	180

Remarks: AC = Activated Carbon

Product Features

Operating Conditions

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

Frame

Material: ABS plastic / galvanised steel

Filter Type

Box

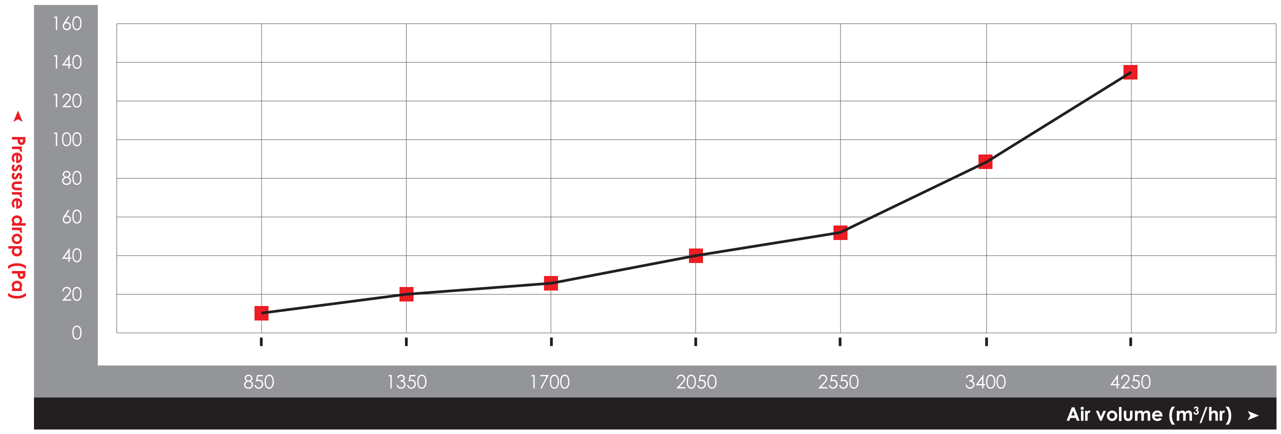
Sealant

Material: Polyurethane

Carbon Filter

Odourfil-V

Graph Of Initial Pressure Drop Versus Air Volume



Applications

Commercial Building

Product Specifications

Nominal Dimension	Actual Dimension	Media Area	AC Weight	Air Flow	Resistance
(inch)	(mm)	(m^2)	(kg)	(m^3/hr)	(Pa)
WxHxD	(WxHxD)x4V				
24x24x12	592x592x295	9.5	4.0	3400	90
24x20x12	592x490x295	8.0	3.5	2800	90
24x24x12	592x287x295	4.5	2.0	1700	90

Remarks: AC = Activated Carbon

Product Features

Operating Conditions

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

Frame

Material: ABS plastic

Filter Type

V-shaped

Sealant

Material: Polyurethane

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