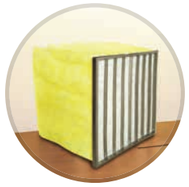
Product Guide
2015

IAF Product Guide 2015








IAF™

Product Guide

2015






IAF Air Filter

Jl. Raya Modern Industri No. 11 Cikande - Serang 42186, INDONESIA
Email: **info@iafairfilter.com** Website: **www.iafairfilter.com**

Welcome!

Introducing IAF Air Filters

innovation around filtration™

Why IAF is High Quality Filter?

How to choose a good filter, as you know filter manufacture do not make their own media.

1. Media for fiberglass media (micron fiberglass for medium and sub micron fiberglass for HEPA)

   IAF uses the best media lydall (ex: USA/French)

   Reliable and Trustworthy in true efficiency of the filter

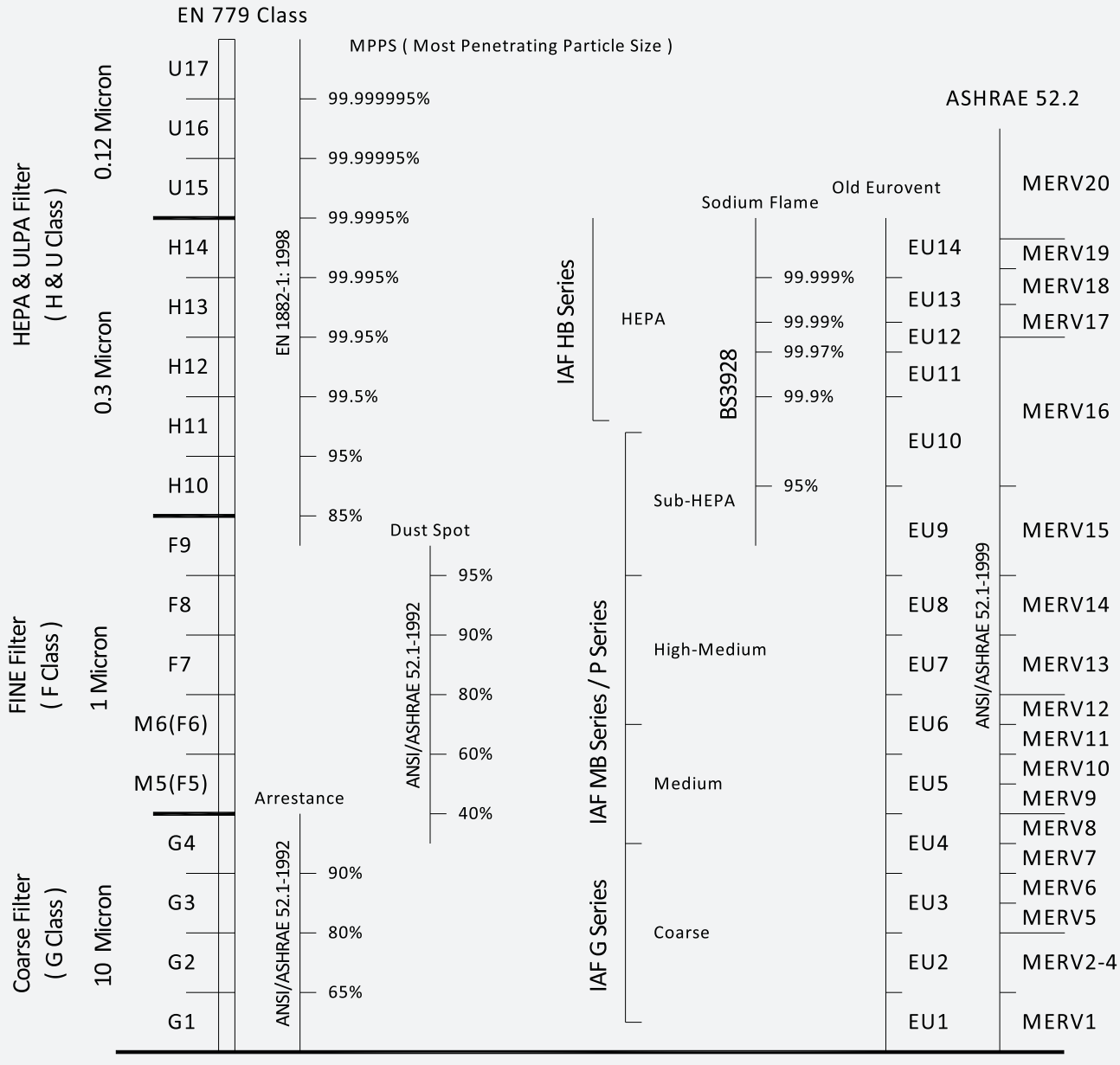
   Very strong media - not broken even with high speed airflow

2. Sealant should be PU because it will penetrate deep into the filter (not hot melt because just on the surface)

3. Here are 2 kinds of seperator
   - Corrugated Alumunium
   - Hot melt (using High Temperature 175^0) seperator for mini pleat.

Index

Filter Efficiency & Classifications



EN 779	G1	G2	G3	G4	M5 (F5)	M6 (F6)	F7	F8
EUROVENT	EU1	EU2	EU3	EU4	EU5	EU6	EU7	EU8

EN 779	F9	H10	H11	H12	H13	H14	U15-17
EUROVENT	EU9	EU10	EU11	EU12	EU13	EU114	

Cleanroom Standard ISO 14644-1

"Classification of Air Cleanliness"

Maximum Concentration Limits (particles/m³ of air)

	Particle Size					
ISO	= 0.1 µm	= 0.2 µm	= 0.3 µm	= 0.5 µm	= 1 µm	= 5 µm
1	10	2				
2	100	24	10	4		
3	1,000	237	102	35	8	
4	10,000	2,370	1,020	352	83	
5	100,000	23,700	10,200	3,520	832	29
6	1,000,000	237,000	102,000	35,200	8,320	293
7				352,000	83,200	2,930
8				3,520,000	832,000	29,300
9				35,200,000	8,320,000	293,000

Comparison between selected equivalent classes of FS 209 and ISO 14644-1

	Particle Size					
ISO 14644-1 Classes	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
FS 209 Classes	Class 1	Class 10	Class 100	Class 1,000	Class 10,000	Class 100,000

Cleanroom Standard EU GGMP

"European Union Guide to Good Manufacturing Practice"

Maximum permitted number particles/m³ equal to or above

	at rest		in operation	
Grade	= 0.5 µm	= 5 µm	= 0.5 µm	= 5 µm
A	3,500	0	3,500	0
B (a)	3,500	0	350,000	2,000
C (a)	350,000	2,000	3,500,000	20,000
D (a)	3,500,000	20,000	not defined (c)	not defined (c)

PRE
Filters

6 - 17

MEDIUM
Filters

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IAF™

Our Products

HEPA / ULPA
Filters

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IAF C-Carbon
FFU

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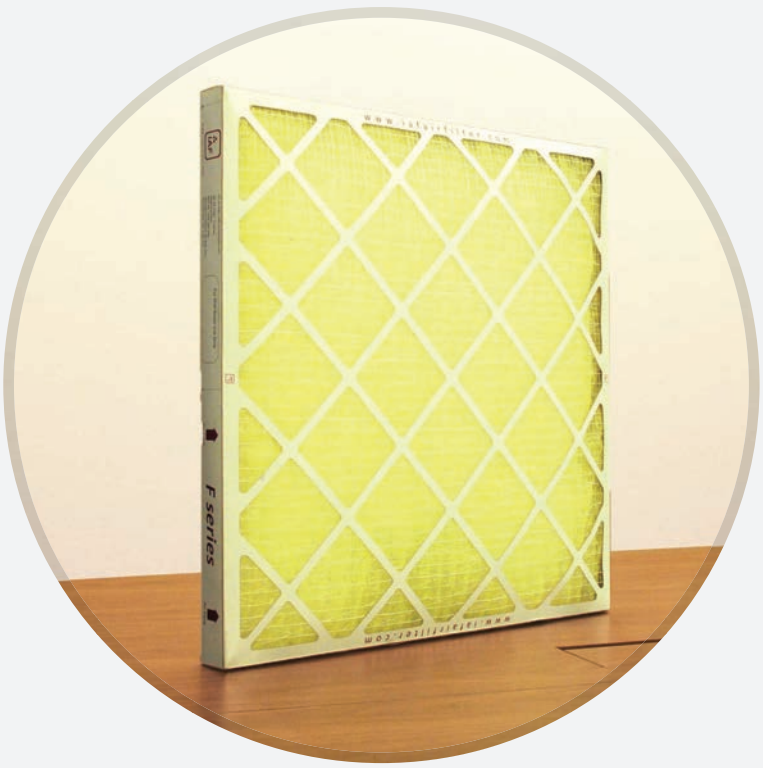
IAF Air Filter

F Series

Pre Filter Pleated Panel



Specification

Media
Progressive density fiberglass media pad

Frame
Highest wet strength beverage board or reusable alumunium frame

EN 779 Class
G3

Recommended Final Pressure
1"W.G. (250 Pa)

Maximum Operating Temperature
150°F

Available Sizes

Size 1
Nominal size (inch): 16 x 20 x 1
Actual size (mm): 390 x 492 x 22

Size 2
Nominal size (inch): 20 x 20 x 1
Actual size (mm): 492 x 492 x 22

Size 3
Nominal size (inch): 20 x 24 x 1
Actual size (mm): 492 x 594 x 22

Size 4
Nominal size (inch): 24 x 24 x 1
Actual size (mm): 594 x 594 x 22

Size 5
Nominal size (inch): 12 x 24 x 2
Actual size (mm): 289 x 594 x 44

Size 6
Nominal size (inch): 16 x 20 x 2
Actual size (mm): 390 x 492 x 44

Size 7
Nominal size (inch): 20 x 20 x 2
Actual size (mm): 492 x 492 x 44

Size 8
Nominal size (inch): 20 x 24 x 2
Actual size (mm): 492 x 594 x 44

Size 9
Nominal size (inch): 24 x 24 x 2
Actual size (mm): 594 x 594 x 44

(Other dimensions or special sizes are available upon request)

General Description

The F series features progressive density fiberglass media pad allowing for full depth filtration. The adhesive coated fibers purpose to retent dusts which have been captured,thus minimizing dusts by pass. Frame: Strength Beverage cardboard Ex: Canada or reusable alumunium frame

Applications

Heavy-duty pre-filter for extending the life of higher efficiency filters

Suitable for use in a dusty condition

Filter Media

High density fiberglass media pad *(Excellent quality media with high dust holding capacity)*

Progressive density media from coarse to fine fibers *(Full dust loading throughout the depth of the filter media for extended service life)*

Unique leno-backing design unlike traditional design *(Maintains dimensional stability and adds to the rigidity of the filter structure)*

Fibers are treated with heavy coating of special adhesives *(Maximizes dust retention as dusts trapped will bond to the filter fibers)*

Filter Construction

High wet strength, beverage carrier board frame *(High strength and moisture-resistant board frame)*

Media is bonded to every cell side *(Ensures no dirty air by-pass around the filter)*

Media is bonded to all points of the die-cut board frame *(Adds to the rigidity of the filter)*

Packaging

Filter is covered with carton layer when delivered *(Media protection from handling damage)*

Advantages over Substitutes

F Series (Pre-filter pleated panel) *(Has higher dust holding capacity and more suited for coarse dust applications, so longer lifetime)*

W Series (Washable filter) *(Relatively inexpensive) + (Maintenance-free: 'use-and-dispose' system [Several times of washing is equivalent to one use of F Series]) (If the dust is sticky and oily, then the washable filter could not be washed surely)*

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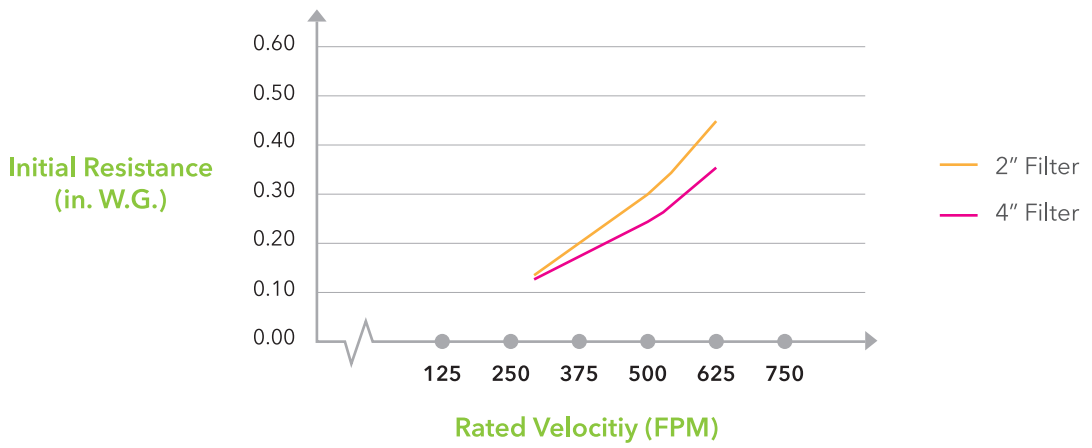
G Series

Pre Filter Pleated Panel (No Wiremesh Support / No Corrosion)

Performance Data: **Initial resistance vs rated velocity**



Specification

Media
Rigid synthetic media without wire mesh or conventional with wire mesh

Frame
Highest wet strength beverage board or reusable alumunium frame

EN 779 Class
G4

Efficiencies
25 - 30%

U.L. Classification
U.L. Class 2

Recommended Final Pressure
1"W.G. (250 Pa)

Maximum Temperature
60°C

Available Sizes

Size 1
Nominal size (inch): 12 x 24 x 1
Actual size (mm): 289 x 594 x 22

Size 2
Nominal size (inch): 16 x 20 x 1
Actual size (mm): 390 x 492 x 22

Size 3
Nominal size (inch): 24 x 24 x 1
Actual size (mm): 594 x 594 x 22

Size 4
Nominal size (inch): 12 x 24 x 2
Actual size (mm): 289 x 594 x 44

Size 5
Nominal size (inch): 20 x 20 x 2
Actual size (mm): 492 x 492 x 44

Size 6
Nominal size (inch): 20 x 24 x 2
Actual size (mm): 492 x 594 x 44

Size 7
Nominal size (inch): 24 x 24 x 2
Actual size (mm): 594 x 594 x 44

Size 8
Nominal size (inch): 12 x 24 x 4
Actual size (mm): 289 x 594 x 95

THE FIRST IN THE MARKET

Higher moisture resistance media, No wiremesh support/no corrosion

General Description

Higher moisture resistance media, no wiremesh support/no corrosion. Frame: Strength Beverage cardboard Ex: Canada or reusable alumunium frame. Intended to trap relatively coarse dust particles, this pleated filter is commonly used as pre-filter to extend the service life of higher efficiency filters. Conventional blue media with wiremesh support. G4 efficiency.

Applications

- Pre-filter or first filter to extend the service life of higher efficiency filters and higher moisture resistance.

Filter Media

- Synthetic ex Europe *(Longer service life and can be used for applications in humid operating condition)*
- Uniform pleat spacing maintained by media bonding at all points of the die-cut board frame *(Optimum media utilization for maximum dust holding capacity)*
- Uniform U-shape pleat design rather than traditional V-Shape maintained by wire mesh *(Minimum resistance to airflow)*
- The media is bonded to every cell side *(Ensures no dirty air by-pass)*
- Possible to be cleaned by compressor

Filter Construction

- Moisture-resistant beverage board frame imported from CANADA *(Frame is able to withstand humid operating condition)* or reusable alumunium frame, so only the media is changed)
- No wire mesh support avoid corrosion *(White media)*
- Conventional wire mesh support *(Blue Media)*

Packaging

- Filter is packed in carton box when delivered *(Media protection from handling, transportation or storing damage)*

Size 9
Nominal size (inch): 20 x 20 x 4
Actual size (mm): 492 x 492 x 95

Size 10
Nominal size (inch): 20 x 24 x 4
Actual size (mm): 492 x 594 x 95

Size 11
Nominal size (inch): 24 x 24 x 4
Actual size (mm): 594 x 594 x 95

(Other dimensions or special sizes are available upon request)

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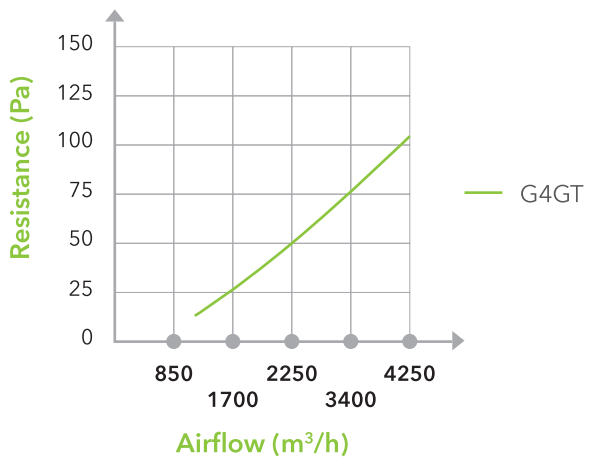
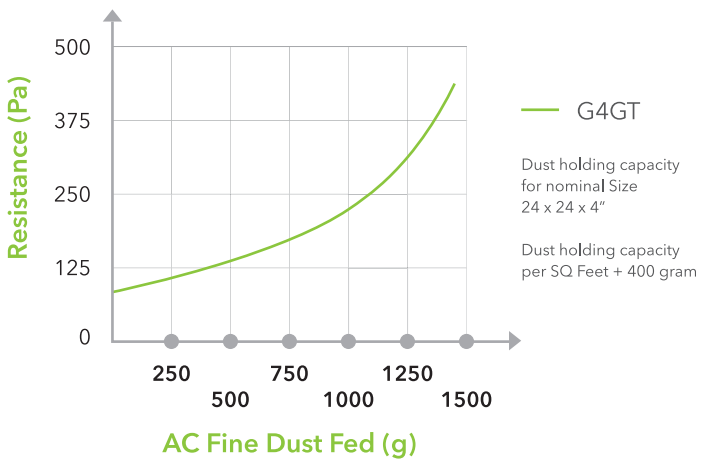
IAF Air Filter

G4GT Pads

Gas Turbine Filter

Performance Data: **Airflow vs Resistance**





Specification

Media
Progressive density fiberglass media pad

EN 779 Class
G4

Average arrestance
90%

Recommended Final Resistance
2.0"W.G. (500 Pa)

Capacity
Up to 2000 CFM

Initial Resistance
30 Pa @ 1000 CFM
85 Pa @ 2000 CFM

Maximum Operating Temperature
150°F

Available Sizes

Size 1
Nominal size (inch): **12 x 24 x 4**
Actual size (mm): **289 x 615 x 95**

Size 2
Nominal size (inch): **24 x 24 x 4**
Actual size (mm): **615 x 615 x 95**

(Other dimensions or special sizes are available upon request)

General Description

IAF G4GT PADS features progressive density fiberglass media pad allowing for full depth filtration. The adhesive-coated fibers purpose to retent dusts which have been captured, thus minimizing dusts by-pass.

Due to the media's high dust loading capacity, G4GT PADS best functions as heavy-duty pre-filter to extend the life of higher efficiency filter (MBGTTXT) in a dusty environment especially for gas turbine.

Applications

- Heavy-duty pre-filter for extending the life of higher efficiency filters (MBGTTXT)
- Suitable for use in a dusty condition

Filter Media

- High density fiberglass media pad *(Excellent quality media with high dust holding capacity)*
- Progressive density media from coarse to fine fibers *(Full dust loading throughout the depth of the filter media for extended service life)*
- Fibers are treated with heavy coating of special adhesives *(Maximizes dust retention as dusts trapped will bond to the filter fibers)*
- More media, higher dust holding capacity 400-500 gram per SQ feet

Filter Construction

- High wet strength, beverage carrier board frame
- Media is bonded to every cell side *(Ensures no dirty air by-pass around the filter)*
- Media is bonded to all points of the die-cut board frame *(Adds to the rigidity of the filter) + (Or reusable metal frame is available)*

IAF™ IAF Air Filter

CC "Arresters" Series

Synthetic Fiber Filter Media

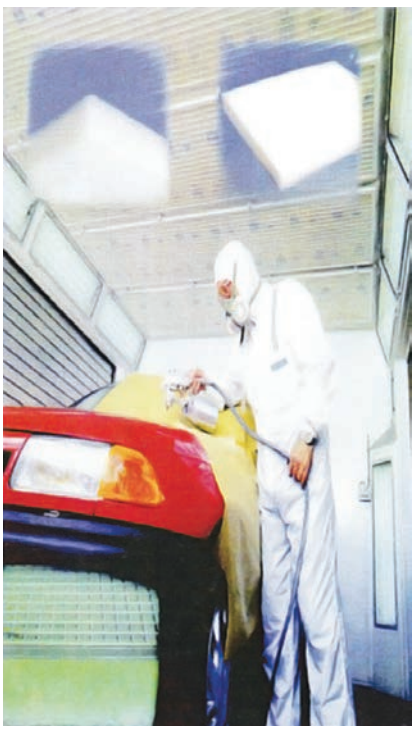
CC "Arresrters" Series: CC - 600 G / M5 (F5), FF - 560 GX / M5 (F5), CC- 660 G / M6 (F6)

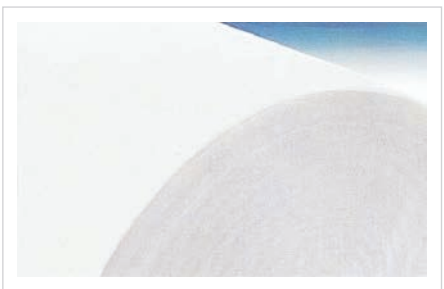
Specially designed for terminal filtration of auto spray-paint as the final filtration barrier with characteristics of high dust holding capacity, low pressure drop and economical. Adhesive and enhanced rigidity ensure high dust holding capacity and robust construction. This ceiling filter ensures a completely uniform air distribution and an all round laminar air flow throughout the spray booth.

Constructed from selected high-performance and high strength synthetic fiber by progressive density multi-layer technique which is thermally bonded and impregnated in full depth with a special tackifier coating to prevent any release or fall-off of fibers. The medias are free of silicon.

The air exit side of the media is particularly compact and smooth allowing high depth loading to ensure high dust holding capacity with higher filtration efficiency and expand the life span of media. It can filter particles larger than 10μ m to prevent them damaging to the quality of painting.

Resistant to chemical impacts of such as chemical solvents and acid smog, etc.





Application

Installed at the auto assembly plants as the final filtration ceiling of spray-paint booth

Designed for terminal filtration of ceiling of spray-paint shop of auto surface refinishing facilities and ventilation equipment.

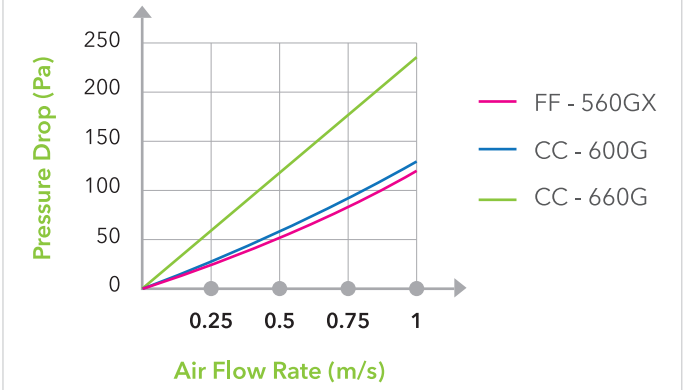
Work as the final filtration barrier in all kinds of spray-paint booth which requires high gloss and polishing surface.

Quality Guarentee

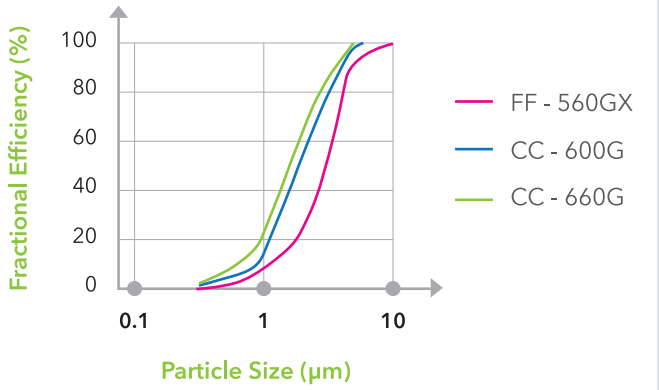
Ensure the stabilization of quality according to En779: 2002 and DIN CERTCO.

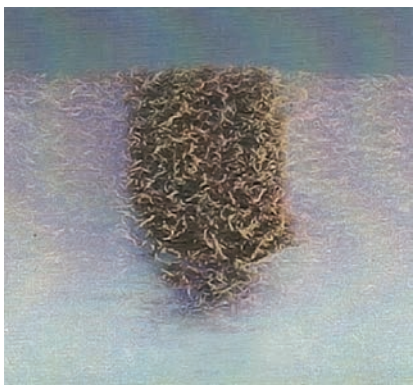
Conform to the fire-proofing classification standards of European Union DIN53438-F1 and American UL900-Class 2.

Pressure Drop vs Air Flow Rate



Fractional Particel Size Efficiency





How to choose high quality ceiling medias?

Function of Filtration

Filter destructive particles failed to be caught by pre-filtration system

Function of Evenness

Ensure the paintings over-sprayed pressed to the floor and exhausted

No Dustfall

Ensure the fibers not falling down and no shaking under condition of strong wind

Migration Test

Technical Data

"Arresters" Series	CC - 600 G	FF - 560 G	CC - 660
Average Arrestance @0.4µm	98%	96%	99%
Average Efficiency	57%	46%	70%
Air Velocity	0.25 m/s	0.25 m/s	0.25 m/s
Initial Pressure Drop	26 Pa	26 Pa	54 Pa
Suggested Final Pressure Drop	450 PA	450 PA	450 PA
Dust Holding Capacity	509 g	430 g	380 g
EN779 Class	M5 (F5)	M5 (F5)	M6 (F6)

According to EN779: 2002 Dust: DEHS

Parameters

"Arresters" Series	CC - 600 G	FF - 560 G	CC - 660
Continuous high-temp resistance	100 °C	100 °C	100 °C
High-temp resistance with mesh	180 °C	180 °C	180 °C
Media Thickness	20 mm	20 mm	20 mm
Relative Humidity	100%RH	100%RH	100%RH
Standard Roll Sizes	2m x 20m	2m x 20m	2m x 20m
	1m x 20m	1m x 20m	1m x 20m
Regenerative / Washable	No	No	No
Migration Class	R0	R0	R0

Sizes are available on customer's request.

Migration Test Class	No. of Particles
R0	< 100
R1	< 1000
R2	< 10,000
R3	< 100,000

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IAF Air Filter

"All-Rounders" Series

Synthetic Fiber Filter Media

VNF - 290, VNF - 300

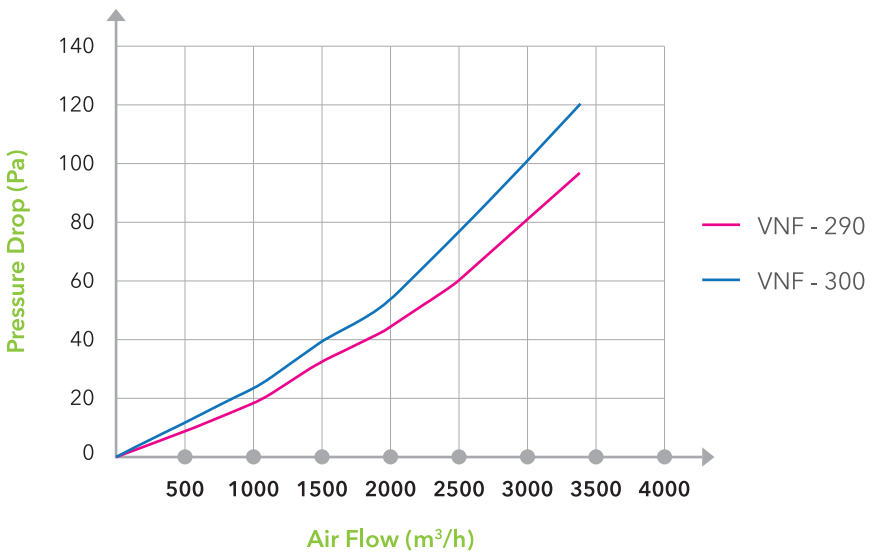
Designed as the pre filtration of general ventilation equipment installed at the buildings, factories and entrance of air control system.

The filter media is constructed from selected high performance, non-breakable fibers in a progressive density multi-layering technique to ensure high depth loading with optimal lowest pressure drop performance, to achieve gravimetric arrestance in accordance with En779: 2002 standard ratings.

The air exit side of the media is particularly compact and smooth with print of efficiency class.

Resistant to chemical impacts, such as chemical solvents and acid smog, etc.

Pressure Drop vs Air Flow Rate



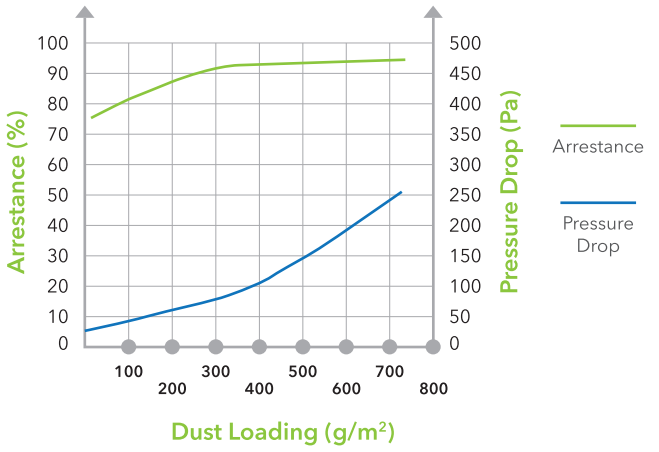
Remark: The above media testing area is 0.31m²

(The error is unavoidable due to the difference of manufacture and testing to concrete product)

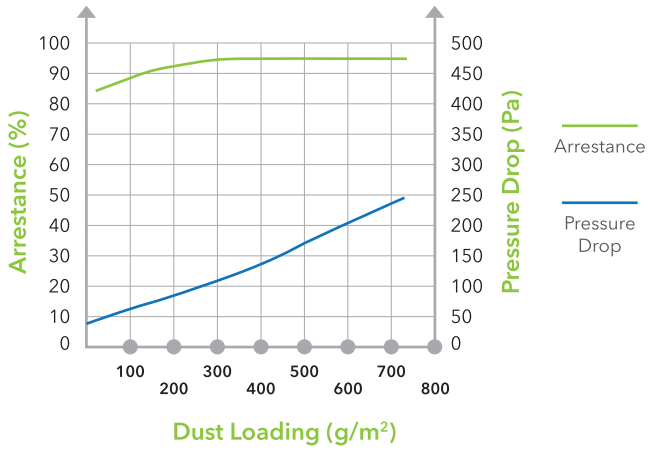
Application

- General air handling units
- Air conditioning systems
- Ventilation systems of all kinds
- Air Intake pre-filtration
- Railway, car ventilation
- Intake and exhaust air systems for heavy industry and chemical plants

Dust Loading vs Arrestance vs Pressure Drop



VNF-290



VNF-300

Quality Guarentee

Ensure the stabilization of quality according to En779: 2002 and DIN CERTCO.

Conform to the flammability classification standards of DIN53438-F1, UL900-Class 1, DIN5510-S2 and NF F 16-101/NF F 16-102-M1.

Media is printed with DIN marks.

Migration Test

Technical Data

"All-Rounders" Series	VNF-290	VNF-300
Average Arrestance	86%	91%
Air Velocity	1.5 m/s	1.5 m/s
Initial Pressure Drop	35 Pa	35 Pa
Suggested Final Pressure Drop	250 PA	250 PA
Dust Holding Capacity	620 g	500 g
EN779 Class	G3	G4

Test according to EN779: 2002

Parameters

"All-Rounders" Series	VNF-290	VNF-300
Temperature Resistance	100 °C	100 °C
Temporary Resistance Temperature	120 °C	120 °C
Media Thickness	20±3 mm	20±2 mm
Relative Humidity	100%RH	100%RH
Standard Roll Sizes	2m x 20m	2m x 20m
	1m x 20m	1m x 20m
Regenerative / Washable	Yes	Yes

Specific sizes are available on request.

IAF™ **IAF** Air Filter make their own media.

C15-150/350/500

Synthetic Fiber Filter Media

Media Features

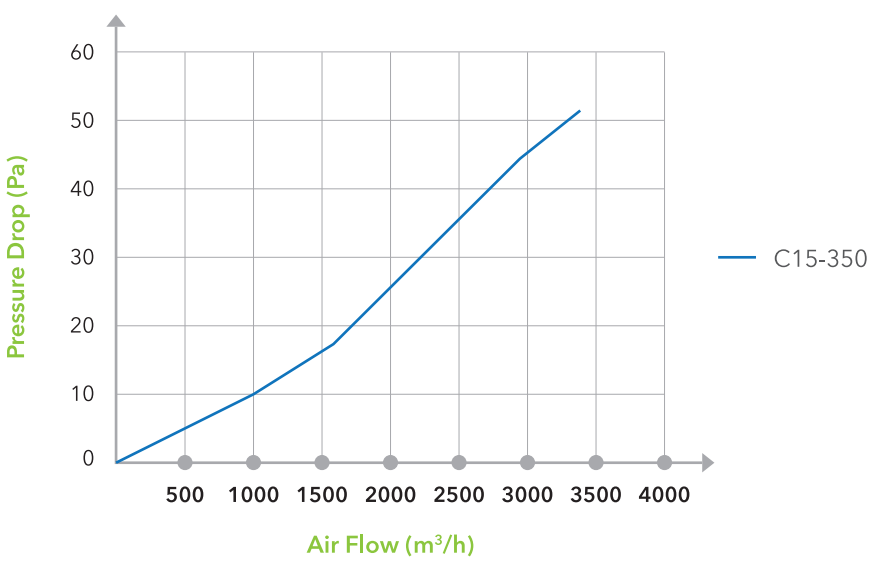
Designed as the pre filtration of general ventilation equipment mounted in buildings, factories and inlet of air control system.

Selected synthetic fibers with high performance and rigidity. The advanced technology of progressive density with multi-layers can ensure the high dust holding capacity and low pressure drop.

Media of the air outlet side is specially compact and smooth with the print of efficiency class on it.

Resistant to chemical of solvents, acidity and smog, etc.

Pressure Drop vs Air Flow Rate



Remark: The above media testing area is 0.31m²

(The error is unavoidable due to the difference of manufacture and testing to concrete product)

Application

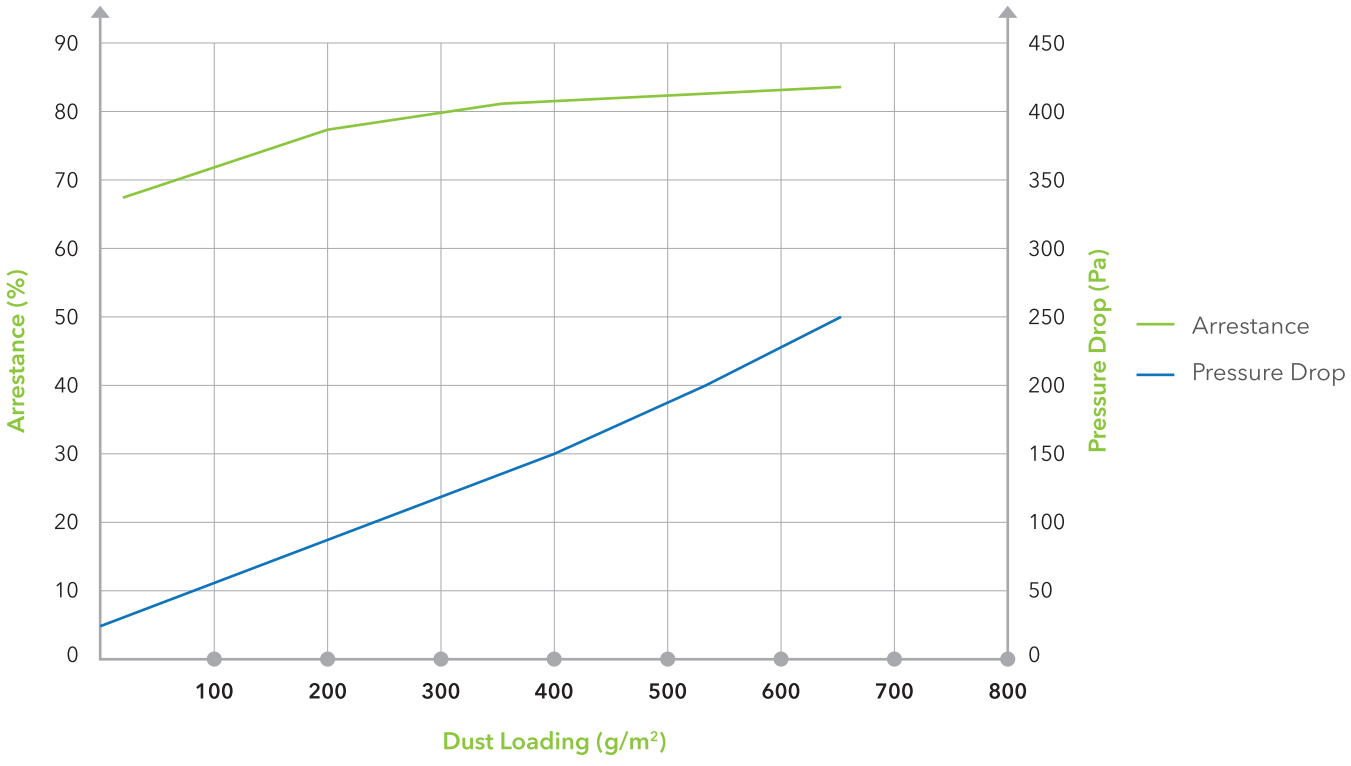
General air control and adjustment instrument + General ventilation system including mass transit vehicles like train, subway, etc.

Pre-filtration of air inlet system + Pre-filtration of spray painting

Quality Guarentee

Tested according to En779: 2002 and DIN CERTCO to ensure the product quality conform DIN53438-F1, UL900-Class 1.

Dust Loading vs Arrestance vs Pressure Drop



Technical Data

Model	C15-500	C15-350	C15-150
Average Arrestance Efficiency	94%	87%	76%
Air Velocity	1.0 m/s	1.5 m/s	2.0 m/s
Initial Pressure Drop	31 Pa	27 Pa	30 Pa
Suggested Final Pressure Drop	250 Pa	250 Pa	125 Pa
Dust Holding Capacity	570 g/m²	600 g/m²	400 g/m²
En779 Filtration Class	G4	G3	G2
Common Temperature	100°C	100°C	100°C
Instant Temperature	120°C	120°C	120°C
Thickness of media	20 mm	20 mm	14 mm
Relative Humidity	100%	100%	100%
Standard Roll dimension	2000 x 20	2000 x 20	2000 x 40
	1000 x 20	1000 x 20	1000 x 40
Washable	Yes	Yes	Yes

Test according to EN779: 2002

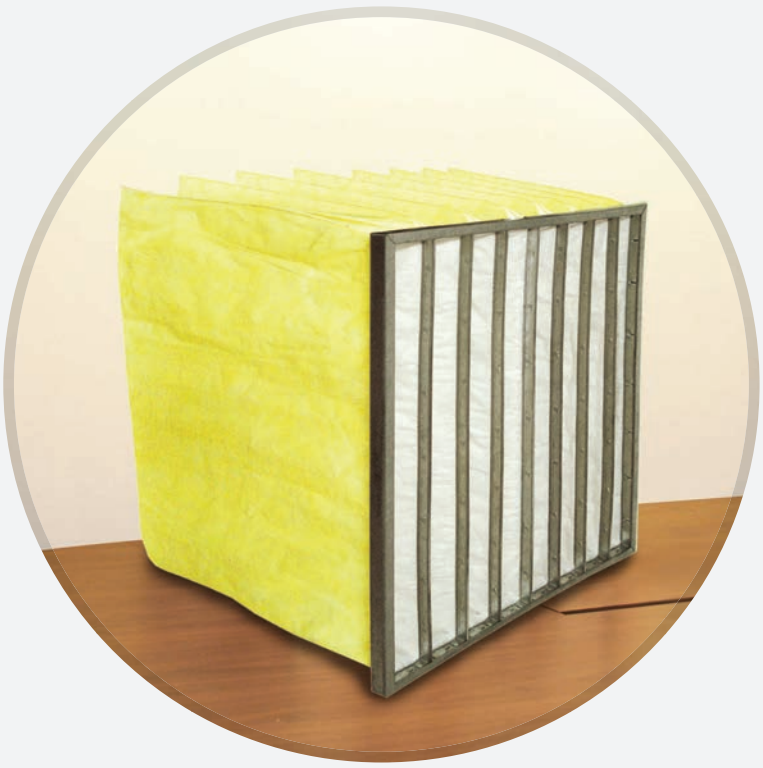
Other sizes are available on request

IAF™

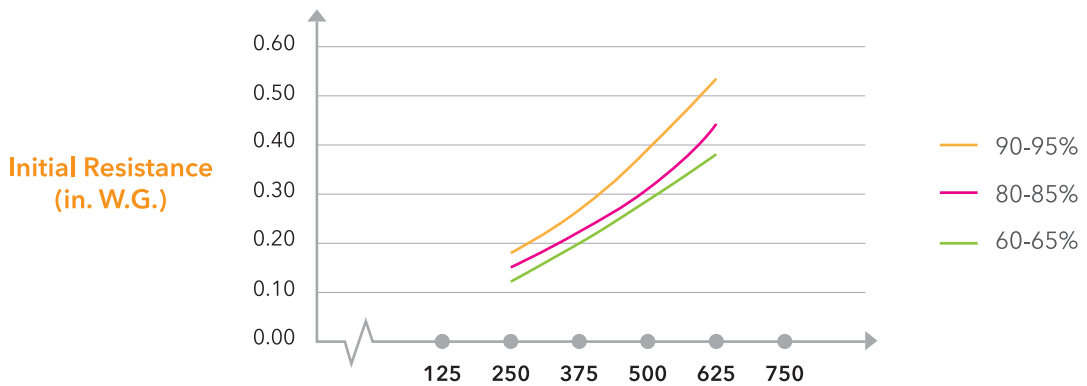
IAF Air Filter

PU Series

Synthetic Ultrasonic Pocket Filter



Performance Data: **Initial resistance vs rated velocity**



Graph is based on PU Series 24x24x30 (8 Pocket) filter

Specification

Media
Ultrasonically welded synthetic media

Recommended Final Resistance
1.0" W.G. (250 Pa)

Maximum Operating Temperature
2000F

Efficiency & Media Color

90 - 95 % Yellow

80 - 85 % Pink

60 - 65 % Orange

40 - 45 % Green

Available Sizes

Size 1
Nominal size (inch): 12 x 24 x 21
Actual size (mm): 287 x 592 x 534
Number of pocket: 3 & 4

Size 2
Nominal size (inch): 20 x 20 x 21
Actual size (mm): 490 x 490 x 534
Number of pocket: 5

Size 3
Nominal size (inch): 20 x 24 x 21
Actual size (mm): 490 x 592 x 534
Number of pocket: 6

Size 4
Nominal size (inch): 24 x 24 x 21
Actual size (mm): 592 x 592 x 534
Number of pocket: 6 & 8

Size 5
Nominal size (inch): 24 x 24 x 30
Actual size (mm): 592 x 592 x 762
Number of pocket: 8 & 10

The filter sizes fit into frame sizes:
610 x 610 | 305 x 610 | 508 x 610

(Other dimensions or special sizes are available upon request)

General Description

Engineered to improve Indoor Air Quality (IAQ), PU Series pocket filter is characterized by it's high strength **synthetic** media and **ultrasonically** welded edges. PU Series pocket filter serves two primary functions: as pre-filter to extend the life of higher efficiency filters or as final filter in constant or variable airflow conditions. Rigid frames, no sharp edges (safe for installation)

Applications

- Pre-filter to extend the life of higher efficiency filters or final filter in constant airflow condition
- Also possible to be used in variable air volume systems

Filter Media

- High-strength synthetic media *(Media is durable and moisture-resistant)*
- Contains about 40% more dust holding capacity than the competing standard synthetic pocket filter *(Longer service life)*
- Uniform aerodynamic pocket spacer *(Full inflation without blocking the pockets, allowing for full media utilization)*
- Edges feature ultrasonic welding (no stitching) *(Creates a strong and leak-free edge sealing)*
- Adhesive gel is applied along all cell sides *(Acts as cushion to protect the media from tearing)*

Filter Construction

- The frame of the filter is self-manufactured *(Quality is closely monitored and controlled)*
- No staples is used *(Strong construction with using roller former*
- Each pocket media is clinched to the mouthring and each mouthring is clinched to the header *(Pockets are securely fastened) + (Sturdy construction)*
- Unique header design with no welding *(No welding and only one rivet is needed, thus eliminating risk of leakage)*
- Safety feature: no sharp edge

IAF™ **IAF** Air Filter

PF Series

Fiberglass Media Pocket Filter

Specification

Media
Fiberglass

Recommended Final Resistance
1.5"W.G. (375 Pa)

U.L. Classification
U.L. Class 2

Maximum Operating Temperature
150°F

Available Sizes

Size 1
Nominal size (inch): 12 x 24 x 22
Actual size (mm): 287 x 592 x 559
Number of pocket: 3 & 4
Rated Air Flow Capacity (CFM): 750 & 1000

Size 2
Nominal size (inch): 24 x 24 x 22
Actual size (mm): 592 x 592 x 559
Number of pocket: 6 & 8
Rated Air Flow Capacity (CFM): 1500 & 2000

Size 3
Nominal size (inch): 12 x 24 x 30
Actual size (mm): 287 x 592 x 762
Number of pocket: 3 & 4
Rated Air Flow Capacity (CFM): 1000 & 1000

Size 4
Nominal size (inch): 24 x 24 x 30
Actual size (mm): 592 x 592 x 762
Number of pocket: 6 & 8
Rated Air Flow Capacity (CFM): 2000 & 2000

Size 5
Nominal size (inch): 12 x 24 x 36
Actual size (mm): 287 x 592 x 915
Number of pocket: 3 & 4
Rated Air Flow Capacity (CFM): 1000 & 1000

Size 6
Nominal size (inch): 24 x 24 x 36
Actual size (mm): 592 x 592 x 915
Number of pocket: 6 & 8
Rated Air Flow Capacity (CFM): 2000 & 2000

The filter sizes fit into frame sizes:
610 x 610 | 305 x 610 | 508 x 610

(Other dimensions or special sizes are available upon request)

Efficiency & Media Color

90 - 95 % Yellow 80 - 85 % Pink 60 - 65 % Orange

General Description

Engineered to improve Indoor Air Quality (IAQ), PF Series pocket filter is characterized by the highest dust holding capacity **fiberglass** media.
PF Series pocket filter serve two primary functions: as pre-filter to extend the service life of higher efficiency filters or as final filter in constant or variable airflow conditions. Rigid frames, no sharp edges (safe for installation)

Applications

- Pre-filter to extend the life of higher efficiency filters or final in constant airflow condition
- Also possible to be used in variable air volume systems

Filter Media

- High loft fiberglass media imported from US manufacturer *(High dust holding capacity media of superior quality)*
- Uniform aerodynamic pocket spacer *(Full inflation without blocking the pockets)*
- Edges feature stitched carefully *(Combine with wax glued span-stitching media is leak free)*
- Adhesive gel is applied a long all cell sides *(Act as cushion to protect the media from tearing)*

Filter Construction

- The frame of the filter is self-manufactured using made-in-USA machines *(Quality is closely monitored using roller former)*
- No staples is used *(Sturdy construction with no sharp edges)*
- Each pocket media is clinched to the mouth ring and each mouth ring is clinched to the header *(Pockets are securely fastened) + (Sturdy construction)*
- Unique header design with no welding *(No welding and only one rivet is needed)*
- Safety feature: no sharp edge

Packaging

- Filter is covered with carton layer when delivered *(Media protection from handling damage)*
- Pockets are pre-folded *(Space efficient during storage and transportation)*
- Filter is strapped with paper *(Easy removal during installation)*

Advantages over Substitutes

- Compared to Synthetic media bag filter, Fiberglass media bag offers higher dust holding capacity & longer service life.

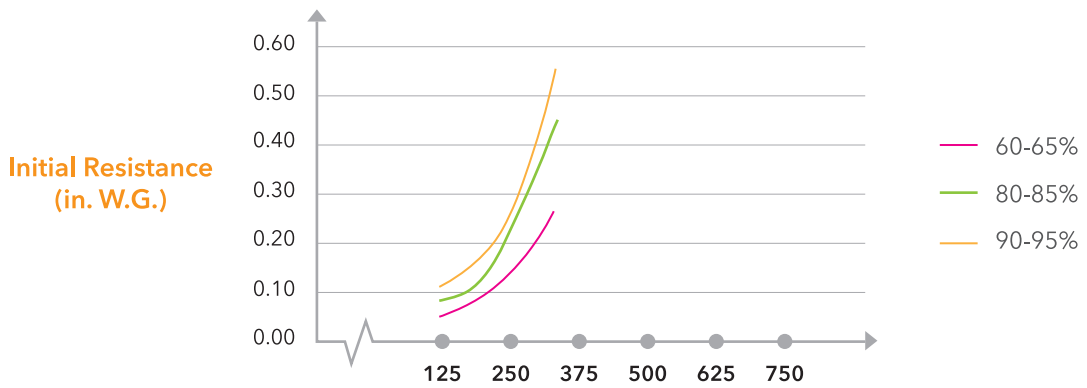
IAF™

IAF Air Filter

MB Series

Medium Box Filter

Performance Data: **Initial resistance vs rated velocity**



Graph is based on MB Series (6" filter)

Specification

Media
Micro-fine fiberglass media

Frame
Galvanized or wood frame

EN 779 Class
F6, F7, F8

Recommended Final Pressure
1.5"W.G. (375 Pa)

Efficiencies
60-65%, 80-85%, 90-95%

Available Sizes

Size 1
Nominal size (inch): **12 x 24 x 6**
Actual size (mm): **287 x 592 x 152**

Size 2
Nominal size (inch): **24 x 24 x 6**
Actual size (mm): **592 x 592 x 152**

Size 3
Nominal size (inch): **12 x 24 x 12**
Actual size (mm): **287 x 592 x 292**

Size 4
Nominal size (inch): **20 x 20 x 12**
Actual size (mm): **490 x 490 x 292**

Size 5
Nominal size (inch): **20 x 24 x 12**
Actual size (mm): **490 x 592 x 292**

Size 6
Nominal size (inch): **24 x 24 x 12**
Actual size (mm): **592 x 592 x 292**

(Other dimensions or special sizes are available upon request)

General Description

The MB Series is commonly used as medium filter in variable air flow condition, usually in clean room applications as pre-filter filter to extend the life of higher efficiency filters or as final filter.

Fiberglass media: ex USA. PU sealant is used between media and frames to better prevent leakage and damage (not hot melt sealant).

Applications

- Final filter or as pre-filter to extend the life of higher efficiency in variable airflow conditions

Available Types

- Single Header, Double Header, and No Header

Filter Media (ex USA/Europe)

- Highest grade micro-fine fiberglass media *(Excellent quality, moisture resistant media)*
- Uniform corrugated aluminium separators with folded edges *(Maintains uniform pleat spacing for uniform airflow distribution) + (No sharp edges which may tear the media or cause operational injuries)*
- The media is strongly bonded to each cell side and ample Polyurethane sealant is applied to the cell sides perpendicular to the media *(Maximum sealing to ensure no leakage between the spacing of the media and cell sides)*

Filter Construction

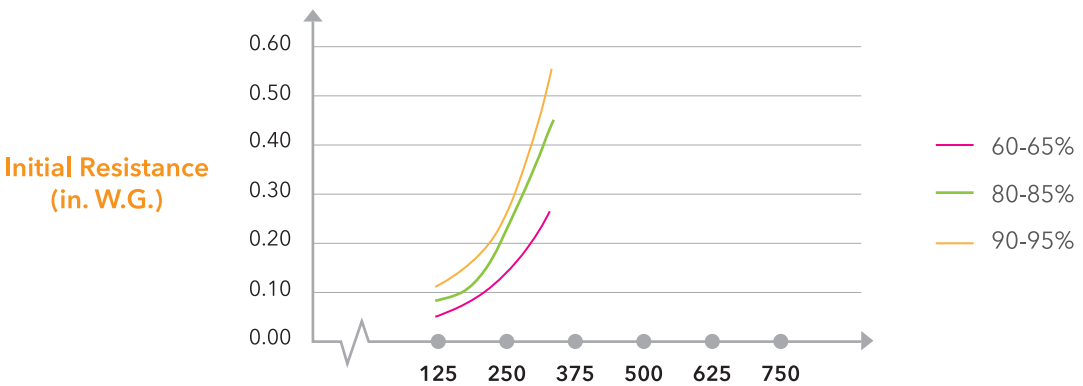
- The frame and cell sides are self-manufactured using excellent roller formers *(Quality is closely monitored and controlled)*
- U-Shape unique interlocked header design with no welding and no sharp corners *(Ensures no dirty air by-pass around the filter) + (Promotes easy and safe handling during installation)*
- The back of the filter is supported with X-shape steel bars *(Provides additional support to the filter)*

IAF™

IAF Air Filter

MBMP

Performance Data: **Initial resistance vs rated velocity**



Graph is based on MB Series (4" filter)

Specification

Media
Micro-fine fiberglass media

Frame
Galvanized or wood frame

EN 779 Class
F6, F7, F8

Recommended Final Pressure
1.5"W.G. (375 Pa)

Efficiencies
60-65%, 80-85%, 90-95%

Available Sizes

Size 1
Nominal size (inch): **12 x 12 x 4 SH**
Actual size (mm): **287 x 287 x 98**

Size 2
Nominal size (inch): **12 x 24 x 4 SH**
Actual size (mm): **287 x 592 x 98**

Size 3
Nominal size (inch): **20 x 24 x 4 SH**
Actual size (mm): **490 x 592 x 98**

Size 4
Nominal size (inch): **24 x 24 x 4 SH**
Actual size (mm): **592 x 592 x 98**

Size 5
Nominal size (inch): **12 x 12 x 4 DH**
Actual size (mm): **287 x 287 x 98**

Size 6
Nominal size (inch): **12 x 24 x 4 DH**
Actual size (mm): **287 x 592 x 98**

Size 7
Nominal size (inch): **20 x 24 x 4 DH**
Actual size (mm): **490 x 592 x 98**

Size 8
Nominal size (inch): **24 x 24 x 4 DH**
Actual size (mm): **592 x 592 x 98**

** SH: Single Header*
** DH: Double Header*

(Other dimensions or special sizes are available upon request)

General Description

The MBMP Series is commonly used as medium filter in variable air flow condition, usually in clean room applications as pre-filter filter to extend the life of higher efficiency filters or as final filter.

Fiberglass media: ex USA. PU sealant is used between media and frames to better prevent leakage and damage (not hot melt sealant).

Applications

- Final filter or as pre-filter to extend the life of higher efficiency in variable airflow conditions

Available Types

- Single Header, Double Header, and No Header

Filter Media (ex USA/Europe)

- Highest grade micro-fine fiberglass media *(Excellent quality, moisture resistant media)*
- Uniform corrugated aluminium separators with folded edges *(Maintains uniform pleat spacing for uniform airflow distribution) + (No sharp edges which may tear the media or cause operational injuries)*
- The media is strongly bonded to each cell side and ample Polyurethane sealant is applied to the cell sides perpendicular to the media *(Maximum sealing to ensure no leakage between the spacing of the media and cell sides)*

Filter Construction

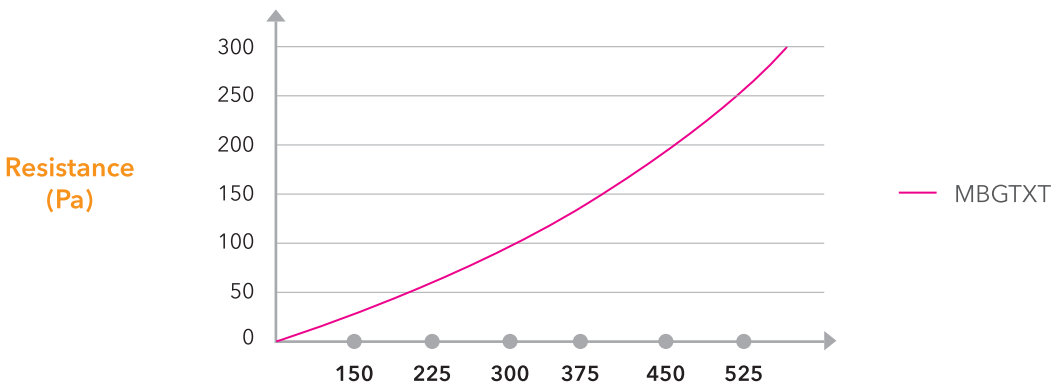
- The frame and cell sides are self-manufactured using excellent roller formers *(Quality is closely monitored and controlled)*
- U-Shape unique interlocked header design with no welding and no sharp corners *(Ensures no dirty air by-pass around the filter) + (Promotes easy and safe handling during installation)*
- The back of the filter is supported with X-shape steel bars *(Provides additional support to the filter)*

IAF™

IAF Air Filter

MBGTXT

Performance Data: **Airflow vs Resistance**



Note: 1" = 248 Pascal

Specification

Media
Micro-fine fiberglass media

Frame
Galvanized or wood frame

EN 779 Class
F8

Efficiency
90-95%

Recommended Final Resistance
2.6"W.G.

Initial Resistance
0.58"W.G. @2000 CFM (3400 CMH)

Rated Air Flow
2000 - 2500 CFM (3400-4250 CMH)

Available Sizes

Size 1
Nominal size (inch): **24 x 24 x 12**
Actual size (mm): **592 x 592 x 292**

Size 2
Nominal size (inch): **24 x 24 x 12**
Actual size (mm): **287 x 592 x 292**

(Other dimensions or special sizes are available upon request)

General Description

MBGTXT 90 is a high efficiency **GAS TURBINE** Air Filter. More media means higher efficiencies because the media velocity is lower, lower pressure drop. Higher dust holding capacity so longer lifetime.

Applications

- As final filter for **GAS TURBINE** and **COMPRESSOR**, it withstands severe pulsation and surging airflow

Available Types

- Single Header and Double Header
- Prefilter is available:
  G4GT Pads Disposable (Progressive density media coated with special adhesive) to prolong the life of MBGTXT

Filter Media

- Highest grade micro-fine fiberglass media ex USA *(Excellent quality, moisture-resistant media)*
- Uniform corrugated aluminium separators with folded edges *(Maintains uniform pleat spacing for uniform airflow distribution) + (No sharp edges which may tear the media or cause operational injuries)*
- The media is strongly bonded to each cell side and ample Polyurethane sealant is applied to the cell sides perpendicular to the media *(Maximum sealing to ensure no leakage between the spacing of the media and cell sides)*
- High quality micro fiberglass filter media ex USA
- More media area: 160 SQ feet

Filter Construction

- The frame and cell sides are self-manufactured using excellent roller formers *(Quality is closely monitored and controlled)*
- U-Shape unique interlocked header design with no welding and no sharp corners *(Ensures no dirty air by-pass around the filter) + (Promotes easy and safe handling during installation)*
- The back of the filter is supported with X-shape steel bars *(Provides additional support to the filter)*
- Galvanized Frame
- Face Guard: Both Sides Galvanized Expanded Metal

IAF™

IAF Air Filter

MBGT-4V

Product Introduction

The filter media is constructed by superfine glass fibers. The continuous hotmelt glues can ensure the consistency of the pleat distance so as to enhance the rigidity, prevent falling off of media pack and ensure the optimal air flow through the filter.

Polyurethane sealing glue is used between media and frames to better prevent the leakage and damage. Benefit to environmental protection by using excellent ABS frame as no toxic gas is produced when being burned. With good advantages among like products, larger effective filtration area, lower resistance and higher dust holding capacity.

Material

Media
Fiber glass

Frame
ABS

Separator
Hot-melt glue

Sealing Gasket
Polyurethane

Metal Mesh
Powder coating steel mesh
(on customer request)

Sealing Strip
5mm thickness sealing strip

Product Features

High efficiency microfiber glass medium for Gas Turbine.

Highest dust holding capacity, long filter life time and no fiber discharge.

V-shape mini pleat design and metal free robust and sturdy plastic frame.

Fully polyurethane sealed in frame, thus leakage free.

Efficiency class: M6(F6), F7, F8, F9 (black frame), H11, H13 (blue frame).

Waterproof media as a Salt Barrier (preventing salt water leaching)

Application

Work as the main filter in the Gas Turbine Air Intake System.

High-humidity ventilation system.

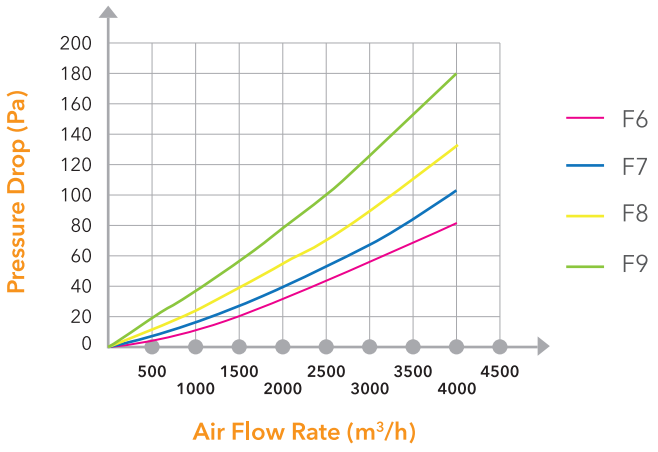
Ventilation systems where has large air output and narrow installation space.

Working Condition

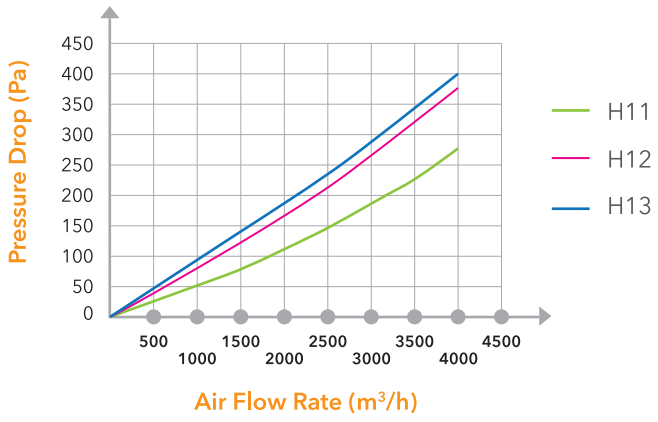
Max. Temperature: 70°C

Max. Humidity: 100%RH

Air Flow Rate vs Initial Pressure Drop (The data below is for reference only)

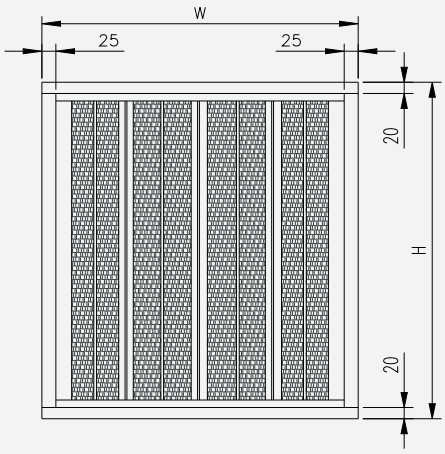


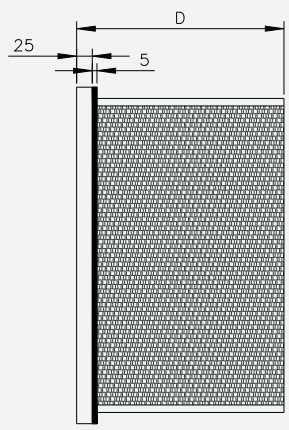
(592 x 592 x 295, 4V)

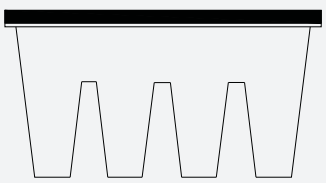


(590 x 590 x 300, 4V)

Installation Dimension







EN779 Class	Dimension (height x width x depth) (mm)	Initial Pressure Drop (± 5% Pa) / Air Flow Rate (m³/h)	Effective Filtration Area (m²)	Suggested Final Pressure Drop (Pa)
M5 (F6)	287 x 592 x 295	4V 70 / 1700	7.5	350
	490 x 592 x 295	4V 70 / 2750	13.5	
	592 x 592 x 295	4V 70 / 3400	16.6	
F7	287 x 592 x 295	4V 85 / 1700	7.5	350
	490 x 592 x 295	4V 85 / 2750	13.5	
	592 x 592 x 295	4V 85 / 3400	16.6	
F8	287 x 592 x 295	4V 110 / 1700	7.5	400
	490 x 592 x 295	4V 110 / 2750	13.5	
	592 x 592 x 295	4V 110 / 3400	16.6	
F9	287 x 592 x 295	4V 150 / 1700	7.5	400
	490 x 592 x 295	4V 150 / 2750	13.5	
	592 x 592 x 295	4V 150 / 3400	16.6	
H11	590x 590 x 300	4V 180 / 3000	21.5	450
	287 x 590 x 300	4V 180 / 1400	9.8	
H12	590x 590 x 300	4V 265 / 3000	21.5	450
	287 x 590 x 300	4V 265 / 1400	9.8	
H13	590x 590 x 300	4V 280 / 3000	21.5	450
	287 x 590 x 300	4V 280 / 1400	9.8	

Remark: Other sizes and efficiencies are available on request

IAF™

IAF Air Filter

MB V-Bank

Plastic Frame Filter

Product Introduction

The filter media is constructed by superfine glass fibers. The continuous hotmelt glues can ensure the consistency of the pleat distance so as to enhance the rigidity, prevent falling off of media pack and ensure the optimal air flow through the filter.

Polyurethane sealing glue is used between media and frames to better prevent the leakage and damage. Benefit to environmental protection by using excellent ABS frame as no toxic gas is produced when being burned. With good advantages among like products, larger effective filtration area, lower resistance and higher dust holding capacity.

Material

Media
Fiber glass

Frame
ABS

Separator
Hot-melt glue

Sealing Gasket
Polyurethane

Metal Mesh
Powder coating steel mesh
(on customer request)

Sealing Strip
5mm thickness sealing strip

Product Features

High efficiency microfiber glass medium.

Highest dust holding capacity, long filter life time and no fiber discharge.

V-shape mini pleat design and metal free robust and sturdy plastic frame.

Fully polyurethane sealed in frame, thus leakage free.

Efficiency class: M6(F6), F7, F8, F9 (black frame), H11, H13 (blue frame).

Application

Work as the main filter in the Gas Turbine Air Intake System.

High-humidity ventilation system.

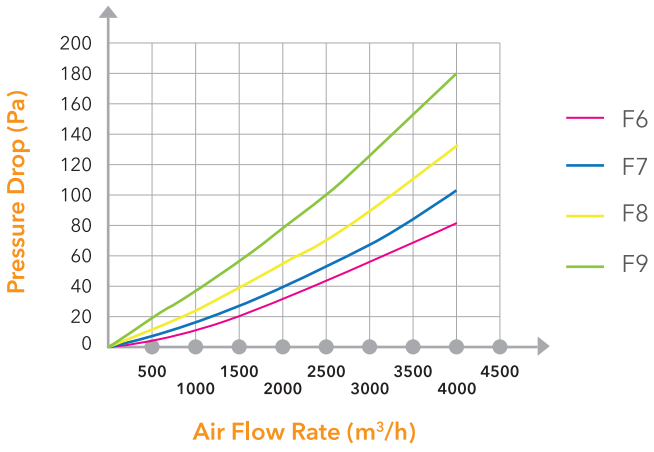
Ventilation systems where has large air output and narrow installation space.

Working Condition

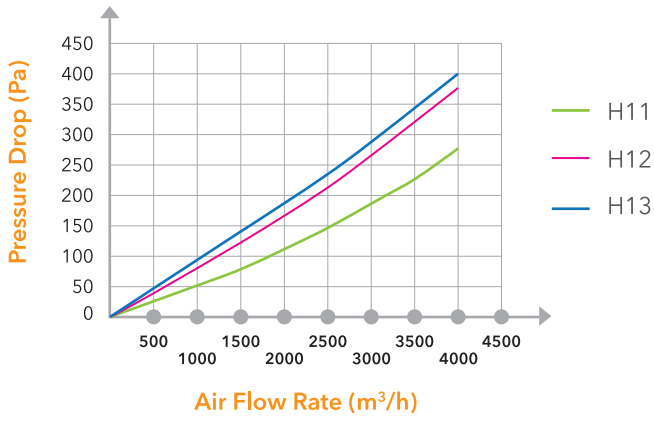
Max. Temperature: 70°C

Max. Humidity: 100%RH

Air Flow Rate vs Initial Pressure Drop (The data below is for reference only)

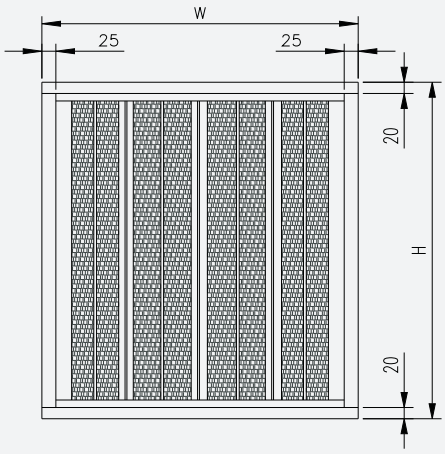


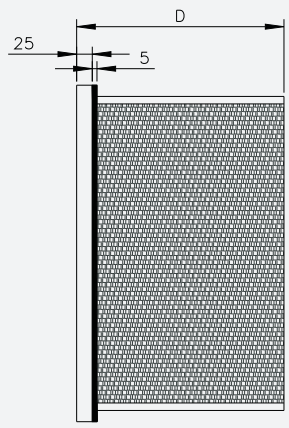
(592 x 592 x 295, 4V)

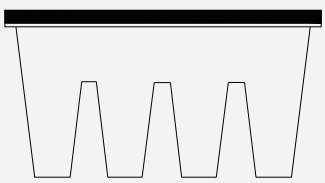


(590 x 590 x 300, 4V)

Installation Dimension







EN779 Class	Dimension (height x width x depth) (mm)	Initial Pressure Drop (± 5% Pa) / Air Flow Rate (m³/h)	Effective Filtration Area (m²)	Suggested Final Pressure Drop (Pa)
M5 (F6)	287 x 592 x 295	4V 70 / 1700	7.5	350
	490 x 592 x 295	4V 70 / 2750	13.5	
	592 x 592 x 295	4V 70 / 3400	16.6	
F7	287 x 592 x 295	4V 85 / 1700	7.5	350
	490 x 592 x 295	4V 85 / 2750	13.5	
	592 x 592 x 295	4V 85 / 3400	16.6	
F8	287 x 592 x 295	4V 110 / 1700	7.5	400
	490 x 592 x 295	4V 110 / 2750	13.5	
	592 x 592 x 295	4V 110 / 3400	16.6	
F9	287 x 592 x 295	4V 150 / 1700	7.5	400
	490 x 592 x 295	4V 150 / 2750	13.5	
	592 x 592 x 295	4V 150 / 3400	16.6	
H11	590x 590 x 300	4V 180 / 3000	21.5	450
	287 x 590 x 300	4V 180 / 1400	9.8	
H12	590x 590 x 300	4V 265 / 3000	21.5	450
	287 x 590 x 300	4V 265 / 1400	9.8	
H13	590x 590 x 300	4V 280 / 3000	21.5	450
	287 x 590 x 300	4V 280 / 1400	9.8	

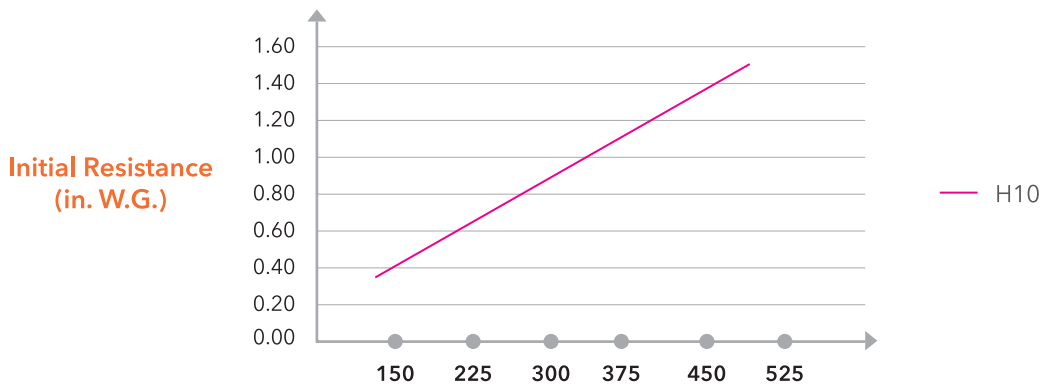
Remark: Other sizes and efficiencies are available on request

IAF™

IAF Air Filter

HB10

Performance Data: **Initial resistance vs rated velocity**



Graph is based on HB-48 Series (11½" filter)

Specification

Media
Micro-fine fiberglass media

Frame
Galvanized steel

EN 779 Class
H10

Recommended Final Pressure
2.0"W.G. (500 Pa) to 3.0"W.G. (750 Pa)

Efficiencies
95%

Available Sizes

Size 1
Nominal size (inch): **12 x 24 x 6**
Actual size (mm): **287 x 592 x 152**

Size 2
Nominal size (inch): **20 x 24 x 6**
Actual size (mm): **490 x 592 x 152**

Size 3
Nominal size (inch): **24 x 24 x 6**
Actual size (mm): **592 x 592 x 152**

Size 4
Nominal size (inch): **12 x 24 x 12**
Actual size (mm): **287 x 592 x 292**

Size 5
Nominal size (inch): **20 x 24 x 12**
Actual size (mm): **490 x 592 x 292**

Size 6
Nominal size (inch): **24 x 24 x 12**
Actual size (mm): **592 x 592 x 292**

Size 7
Nominal size (inch): **12 x 24 x 12**
Actual size (mm): **305 x 610 x 292**

Size 8
Nominal size (inch): **20 x 24 x 12**
Actual size (mm): **508 x 610 x 292**

Size 9
Nominal size (inch): **24 x 24 x 12**
Actual size (mm): **610 x 610 x 292**

(Other dimensions or special sizes are available upon request)

General Description

The HB Series is commonly used as final filter in variable airflow conditions, typically for clean room applications. Wide range of efficiencies: H10

High quality submicron fiberglass media ex: USA/French.

Full depth PU sealant, not hot melt.

Individually DIN test for each filter, Guaranteed.

Applications

- Final filter for variable airflow conditions
- May also be used as pre-filter for extending the life of ULPA filters

Available Types

- Single Header, Double Header, and No Header

Filter Media

- Highest grade micro-fine fiberglass media *(Excellent quality, moisture resistant media)*
- Media is pleated over uniform corrugated aluminum separators with folded edges *(Maintains uniform pleat spacing for uniform airflow distribution) + (This results in minimum resistance to airflow for maximum media utilization) + (Folded edges ensures no sharp edges which may tear the media or cause operational injuries)*
- The media is bonded to each cell side and ample Polyurethane sealant is applied to the cell sides perpendicular to the media *(The filter pack is completely immersed to the cell sides, shutting of all leak paths)*

Filter Construction

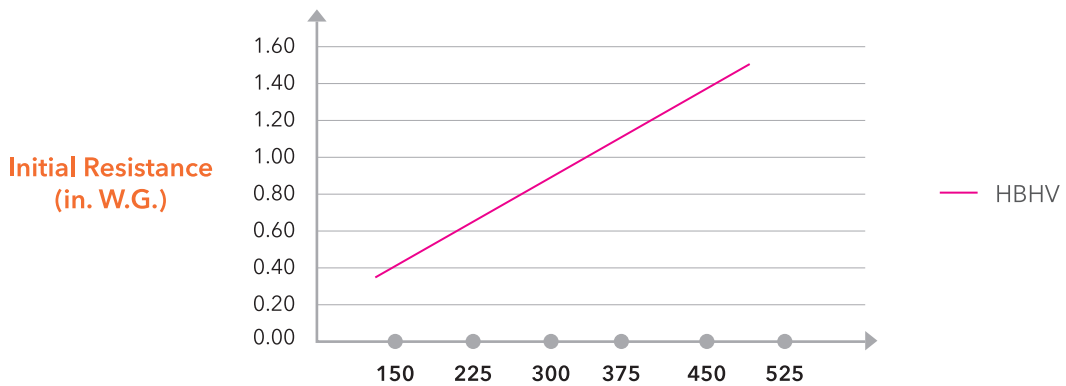
- We are manufacturing our own frame
- Metal clinching, not cheap rivet

IAF™

IAF Air Filter

HBHV

Performance Data: **Initial resistance vs rated velocity**



Graph is based on HB-48 Series (11½" filter)

Specification

Media
Micro-fine fiberglass media

Frame
Galvanized steel

EN 779 Class
H13, H14

Recommended Final Pressure
2.0"W.G. (500 Pa) to 3.0"W.G. (750 Pa)

Efficiencies
99.99% and 99.999% on 0.3 micron

Available Sizes

Size 1
Nominal size (inch): **12 x 24 x 11½**
Actual size (mm): **305 x 610 x 292**

Size 2
Nominal size (inch): **24 x 24 x 11½**
Actual size (mm): **610 x 610 x 292**

(Other dimensions or special sizes are available upon request)

General Description

The HBHV Series is commonly used as final filter in variable airflow conditions, typically for clean room applications. Wide range of efficiencies: H13 and H14.

High quality submicron fiberglass media ex: USA/French.

Full depth PU sealant, not hot melt.

Individually DIN test for each filter, Guaranteed.

Applications

- Final filter for variable airflow conditions
- May also be used as pre-filter for extending the life of ULPA filters

Available Types

- Double Header and No Header

Filter Media

- Highest grade micro-fine fiberglass media *(Excellent quality, moisture resistant media)*
- Media is pleated over uniform corrugated aluminum separators with folded edges *(Maintains uniform pleat spacing for uniform airflow distribution) + (This results in minimum resistance to airflow for maximum media utilization) + (Folded edges ensures no sharp edges which may tear the media or cause operational injuries)*
- The media is bonded to each cell side and ample Polyurethane sealant is applied to the cell sides perpendicular to the media *(The filter pack is completely immersed to the cell sides, shutting of all leak paths)*

Filter Construction

- We are manufacturing our own frame
- Metal clinching, not cheap rivet

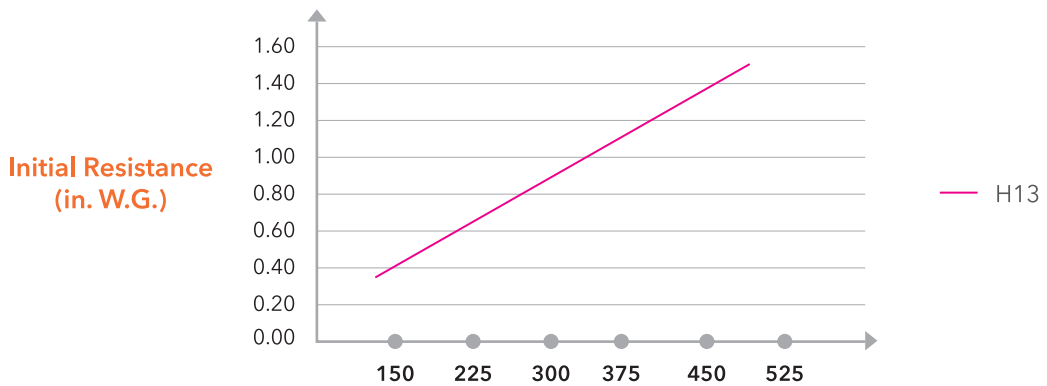
IAF™

IAF Air Filter

HB Series

High Efficiency Box Filter

Performance Data: **Initial resistance vs rated velocity**



Graph is based on HB-48 Series (11½" filter)

Specification

Media
Micro-fine fiberglass media

Frame
Galvanized steel

EN 779 Class
H13, H14

Recommended Final Pressure
2.0"W.G. (500 Pa) to 3.0"W.G. (750 Pa)

Efficiencies
99.99% and 99.999% on 0.3 micron

Available Sizes

Size 1
Nominal size (inch): 12 x 24 x 5 7/8
Actual size (mm): 287 x 592 x 149

Size 2
Nominal size (inch): 20 x 24 x 5 7/8
Actual size (mm): 490 x 592 x 149

Size 3
Nominal size (inch): 24 x 24 x 5 7/8
Actual size (mm): 592 x 592 x 149

Size 4
Nominal size (inch): 12 x 24 x 11 1/2
Actual size (mm): 287 x 592 x 292

Size 5
Nominal size (inch): 20 x 24 x 11 1/2
Actual size (mm): 490 x 592 x 292

Size 6
Nominal size (inch): 24 x 24 x 11 1/2
Actual size (mm): 592 x 592 x 292

Size 7
Nominal size (inch): 12 x 24 x 11 1/2
Actual size (mm): 305 x 610 x 292

Size 8
Nominal size (inch): 20 x 24 x 11 1/2
Actual size (mm): 508 x 610 x 292

Size 9
Nominal size (inch): 24 x 24 x 11 1/2
Actual size (mm): 610 x 610 x 292

(Other dimensions or special sizes are available upon request)

General Description

The HB Series is commonly used as final filter in variable airflow conditions, typically for clean room applications. Wide range of efficiencies: H13 & H14.

High quality submicron fiberglass media ex: USA/French.

Full depth PU sealant, not hot melt.

Individually DIN test for each filter, Guaranteed.

Applications

- Final filter for variable airflow conditions
- May also be used as pre-filter for extending the life of ULPA filters

Available Types

- Single Header, Double Header, and No Header

Filter Media

- Highest grade micro-fine fiberglass media *(Excellent quality, moisture resistant media)*
- Media is pleated over uniform corrugated aluminum separators with folded edges *(Maintains uniform pleat spacing for uniform airflow distribution) + (This results in minimum resistance to airflow for maximum media utilization) + (Folded edges ensures no sharp edges which may tear the media or cause operational injuries)*
- The media is bonded to each cell side and ample Polyurethane sealant is applied to the cell sides perpendicular to the media *(The filter pack is completely immersed to the cell sides, shutting of all leak paths)*

Filter Construction

- We are manufacturing our own frame
- Metal clinching, not cheap rivet

IAF™

IAF Air Filter

HBMP Series

High Efficiency Box Filter

Specification

Media
High quality sub-micron Fiberglass paper

Frame
Aluminum

EN 779 Class
H14, U15, U16, U17

Recommended Final Pressure
2.0"W.G. (500 Pa)

Efficiencies
99.999% (H14) / 99.9999% (U15)
99.99999% (U16) / 99.999999% (U17)
- INDIVIDUALLY DIN TESTED -

Maximum Temperature
70°C

Available Sizes

Size 1
Actual size (inch): **12 x 12 x 2¾**
Actual size (mm): **305 x 305 x 69**

Size 2
Actual size (inch): **12 x 24 x 2¾**
Actual size (mm): **305 x 610 x 69**

Size 3
Actual size (inch): **24 x 24 x 2¾**
Actual size (mm): **610 x 610 x 69**

Size 4
Actual size (inch): **24 x 30 x 2¾**
Actual size (mm): **610 x 762 x 69**

Size 5
Actual size (inch): **24 x 36 x 2¾**
Actual size (mm): **610 x 915 x 69**

Size 6
Actual size (inch): **24 x 48 x 2¾**
Actual size (mm): **610 x 1220 x 69**

Size 7
Actual size (inch): **36 x 48 x 2¾**
Actual size (mm): **915 x 1220 x 69**

(Other dimensions or special sizes are available upon request)

Installation Resistance Table at Nominal Air Flow

Depth (mm)	Class			
	H14	U15	U16	U17
69	125	145	165	-
117	75	80	90	110

Efficiency

Efficiency	Efficiency EN 1822	
@0.3 µm	@ MPPS	
99.999%	H14	99.995%
@0.12 µm		
99.9995%	U15	99.9995%
99.99995%	U16	99.99995%
99.999995%	U17	99.999995%

General Description

The HBMP Series are designed for use in clean rooms, clean benches, biohazard benches and other clean work stations. These filters ensure the necessary levels of contamination control in clean room environments. High quality submicron fiberglass media Ex:USA/French.

HQ High Temperature hot melt seperator (175^{0}C). HQ PU Sealant full depth. Individually DIN test for each filter to ensure no leakage at all.

Applications

- Factory tested to meet the most stringent legal and industry requirements
- High efficiency safeguards process, product and workers
- Functional reliability: leak or scan tested
- Powder coating face guards also available: 81mm & 85mm
- Gel seal is also available

IAF™

IAF Air Filter

IAF C-Carbon

Particle and Gaseous Disposable Filters

Available Sizes

Size 1

Nominal size (inch): **12 x 24 x 2**
Actual size (mm): **289 x 592 x 45**
Air Flow Capacity CFM
- @300 FPM: **600**
- @500 FPM: **1000**

Rec. Final Resistance (in. w.g): **1.2"**

Size 2

Nominal size (inch): **24 x 24 x 2**
Actual size (mm): **289 x 592 x 45**
Air Flow Capacity CFM
- @300 FPM: **1200**
- @500 FPM: **2000**

Rec. Final Resistance (in. w.g): **1.2"**

Size 3

Nominal size (inch): **12 x 24 x 4**
Actual size (mm): **289 x 592 x 95**
Air Flow Capacity CFM
- @300 FPM: **600**
- @500 FPM: **1000**

Rec. Final Resistance (in. w.g): **1.2"**

Size 4

Nominal size (inch): **24 x 24 x 4**
Actual size (mm): **289 x 592 x 95**
Air Flow Capacity CFM
- @300 FPM: **1200**
- @500 FPM: **2000**

Rec. Final Resistance (in. w.g): **1.2"**

(Other dimensions or special sizes are available upon request)

General Description

- IAF C1, IAF C2, IAF C3
- For particle and gaseous disposable filters (including odors) very effective for cigarette smoke
- IAF C-Carbon wide spectrum of odor and gases removal
- IAF C-Carbon filter media is ex Europe
- Easy Installation
- High quality carbon *(Carbon ex Europe)*
- 3 different grades for low, medium and high contamination
- Moisture resistance, High strength beverage board frame
- Each filter is sealed in a poly bag to make sure no gases adsorption prior to installation

Applications

- Diesel Odors
- Refuse, Sewer Odors *(Trash, dumpsters, STP [Sewage Treatment Plant])*
- Cooking Odors *(Restaurants)*
- Chemical Odors *(Cleaning chemicals and solvents)*
- Common Indoor Air Contaminants Associated with Furnishings and Electronic Equipment *(Formaldehyde and volatile organic compounds [VOCs])*
- Corrosion Protection of Electronic Equipment, Data Centers and Server Rooms
- Construction Odors *(Sealants, paints, solvents, and adhesives)*

IAF™

IAF Air Filter

FFU (Fan Filter Unit)

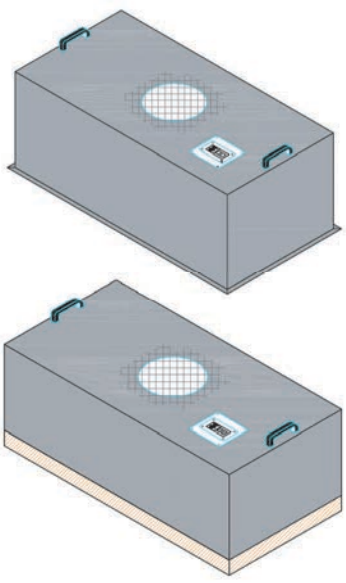
Product Introduction

Low watts, sound, and High Static.
Fan Diameter: 400mm, stronger. (Higher air volume and static pressure)

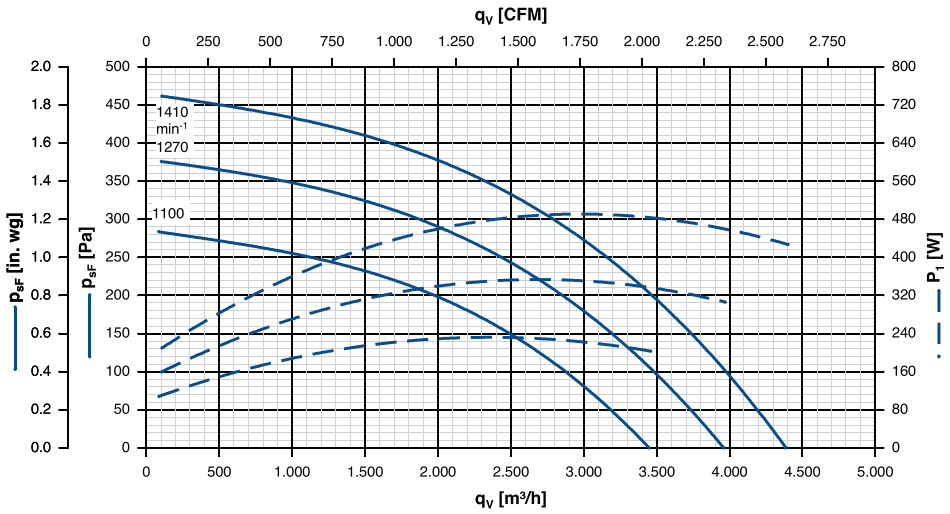
IAF Fan-Filter-units (FFU) are mainly used in ceiling grid systems of cleanroom facilities in order to reduce the particle concentration. IAF Fan-Filter-Unit is suitable for turbulent or laminar flow clean room and dust control environment. IAF Fan-Filter-Unit system is capable to archieve the required cleanroom conditions/ classes by providing laminarity and re-circulation upon filtration of the air.

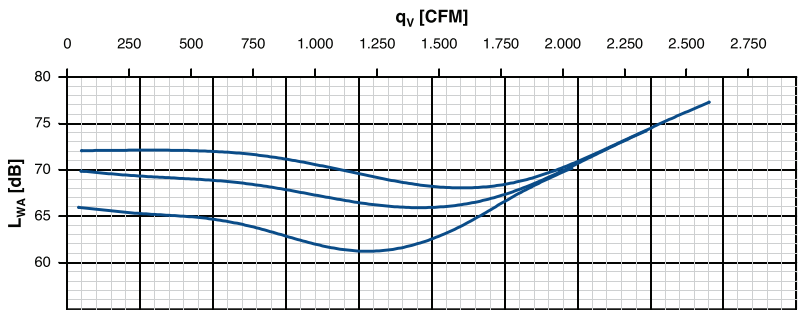
It can be be easily upgraded and intergrated into any celing configuration in accordance with clean room design from Class 10,000 to Class 1.

It delivers high quality air filtration and distribution performance which suitable for most of the semiconductor, micro-electronics, pharmaceutical, microbial industry that demand high quality of contamination or dust control environment.



Fan Curve Performance





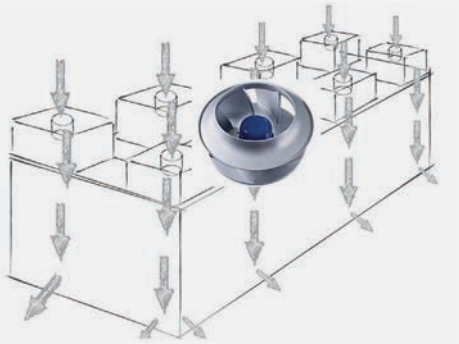
Standard Features

- Low sound, low watts,high static pressure, and low operating costs
- Variable speed switch features small scale adjustment of fan speed (AC motor)
- Solid state speed controller standard (EC motor computer control)
- Forward-curved centrifugal fan Ziehl Abegg
- High Efficiency Particulate Air (HEPA) Filter Efficiency 99.99% @ 0.3 micron (H13)
- Snap-in prefilter allows for easy replacement and maintenance
- Walkable Top Plenum (excluding prefilter), rated at 250 lbs.
- Rigid Steel Body provide walkable platform (not more than 200 lbs)

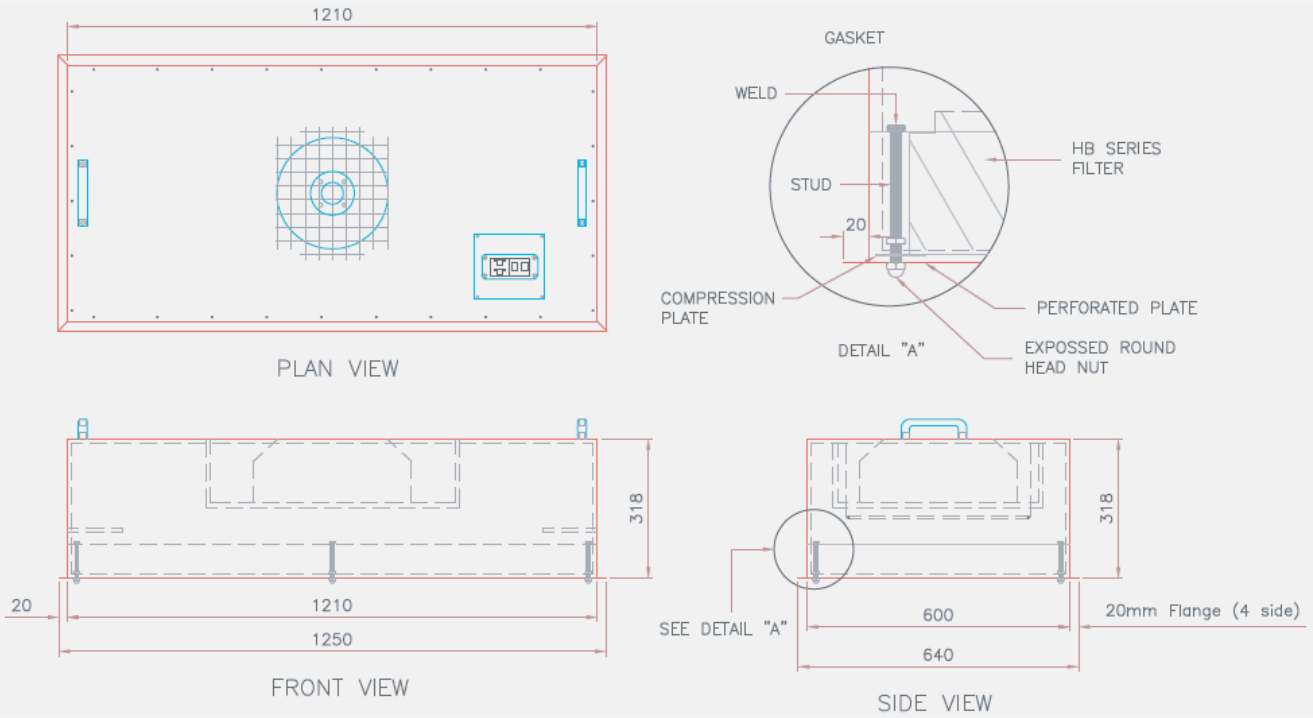
Optional Features

- Solid-State Speed Control: EC Control
- Room-Side Replacement (RSR) available with dry / gel seal filter element; filter is replacement from the roomside
- RSRE provides filter and motor/blower assembly replacement from the roomside
- Ultra-low Penetration Air (ULPA) Filter: 99.9995% efficient @ 0.12 micron (U15)
- Monitoring and Control System: Online or PC monitoring and adjustment
- Duct Collar 10" (254 mm) and 12" (305 mm)
- Snap-in prefilter allows for easy replacement and maintenance
- Finishing: Powder coated, Aluminium or Stainless Steel
- Room-side 3/8" Challenge Port and Static Port: Offers convenient aerosol challenge and filter testing
- Custom sizes and configurations available; perfect for mini-environment applications
- Metric sizes available

Standard Application for IAF Fan-Filter-Unit



IAF Fan-Filter-Unit Design



IAF Fan-Filter-Unit Performance

	Standard Size			Motor	Air Flow	Face Velocity	Noise Level	Total Static Pressure	Filter Resistance	Power Com
	H	W	D		(CFM)	(m/s)	(dB)	(Pa)	H13 / H14 (Pa)	(EC Fan) Watt
RSR / RSRE	600	600	455	EC / AC	360	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	600	915	455	EC / AC	540	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	600	1210	455	EC / AC	700	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	1210	1210	455	EC / AC	1440	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
Gel Seal (GS)	600	600	275	EC / AC	360	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	600	915	275	EC / AC	540	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	600	1210	275	EC / AC	700	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	1210	1210	275	EC / AC	1440	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
Standard	600	600	275	EC / AC	360	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	600	915	275	EC / AC	540	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	600	1210	275	EC / AC	700	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190
	1210	1210	275	EC / AC	1440	0.35 - 0.50	50-57	350 ~ 400	110 / 125	110 - 190

*** Remark: Others sizes and design of Fan-Filter-Unit is available upon request.