

AIR FILTER

PRODUCTS



PRE-FILTER



SECONDARY FILTER



HEPA FILTER



About Us

Established in 1960, Japan Air Filter began as a family business primarily focusing on delivering top-notch air purification products and well-received related quality products. Through a legacy of generations of excellence, today JAF has become a leading provider of extensive Air Filtration and Air Pollution Control Products & Solutions across the world. Driven by values of quality, reliability and sustainability, we are firmly committed to our mission of delivering reliable products for enhancing indoor air quality as well as odour, corrosion and pollution control.

Inspired by our founder's vision of creating products that are 'good for the people and good for the environment', JAF continually improves its product line through the latest technology and a keen emphasis on research and development. Over the years, we have forged a solid reputation by supplying industries and businesses around the globe with cutting-edge air purification products and services that consistently meet a wide range of needs.

A Vision of Global Growth

As a rapidly growing organisation, one of JAF's core objectives is to expand its businesses beyond Japan. With hard work and much coordination, this goal came into realisation in 2015 with the opening of JAF's first overseas factory in Malaysia. This was then followed by the inception of JAF Singapore in 2016, JAF Thailand in 2017 and JAF Indonesia and JAF China in 2018.

Today, backed by world-renowned Japanese technology, JAF Malaysia aspires to become the industry's most trusted name for an all-encompassing range of air purification solutions. JAF continues to establish its foothold across Asia, with numerous sales offices in key markets such as Indonesia, Thailand, Singapore and China, as well as global distribution of products to Pakistan, Bangladesh, Middle East, Europe and more. By making our presence felt in more countries, we aspire to make quality air purification solutions more easily attainable and beneficial to every level of the society.

PRODUCT

Category

AIR FILTER PRODUCTS

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Pre-filter



JS-FB Mat



JS Mat



DeaMat S/P



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JS Mat GPM 30 / GPM 60



DeaMat HT



DeaMat GHT-200 & GHT-100



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DeaKleen MG



DeaKleen Anti-Microbial



Grease filter

Secondary Filter



MiraDeep Borsa



Miradeep Borsa FG



MiraCel MB



MiraCel II MH



MiraCel II



MiraCel & MiraCel
with Antimicrobial



MiraCel HT



MiraCel GT



MiraCel V



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Hepa Filter



LunaCel ULPA



LunaCel TS



LunaCel HC



LunaCel STD



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LunaCel E10



LunaCel TS E10



LunaKleen



TetraKleen



LunaCel V



LunaCel VBX



LunaCel VL



LunaKleen Hood



LunaKleen Ghood



JS-FB Mat Glass Fiber Pre-filter

JS - FB Mat

- Fiber glass auto roll media
- White colour and impregnated with gel
- High dust holding capacity and high cleaning efficiency
- High resiliency and flexibility
- Inexpensive from operating and replacement stand point
- Available in easy-to-handle continuous roll form and operation velocity of 500

Specification

Type	Media Dimension			Average Arrestance (%)	Pressure Loss (Pa)		Air Velocity (m/s)
	Length (m)	Thickness (mm)	Width average (mm)		Initial	Final	
JS - FB Mat 3'	20	80 tolerance (-5/+10mm)	830	80	48	250	2.5
JS - FB Mat 4'			1169				
JS - FB Mat 5'			1474				
JS - FB Mat 6'			1778				

Measuring method: ASHRAE 52.1 - 1992
Other code sizes / construction are available

Initial Resistance +/-10%

Material And Operating Condition

Media	Material	Fiber Glass
	Enhanced	Fiber Glass
	Adhesive	Non-combustible oil
	Preserve Method	Dispose after usage
Max Temperature		80°C
Temperature Usage Range		Continuously use time : -23~+80

Inflammable Test Result

Test Item	Test Results	Test Method
After Flame Time (sec)	0	JACA No.11A method
Residual Dust Time (sec)	0	
Existence of Cotton Fire	Nil	
Combustion Distance (mm)	2.4	
Groups	Class 3	



Roll Type Synthetic Fiber Pre-filter

JS Mat

- Synthetic fiber roll filter with progressive density
- Media with excellent heat resistance, water resistance, inflammable using synthetic fiber

Specification

Type		Media Dimension				Average Arrestance Efficiency (%)	Pressure Loss (Pa)		Air Velocity (m/s)
		Length (m)	Thickness (mm)	Roll Diameter (mm)	Width average (m)		Initial	Final	
W-EC	Washable	20	10	400-420	2	75-80 (G2)	19	130	1.5
W-SD	Washable		18-20	660-690		80-85 (G3)	25	200	
W-SU	Washable		20-22	660-690		87-92 (G4)	30	200	

Measuring method: ASHRAE 52.1 & 52.2

Initial Resistance +/-10%

Material And Operating Condition

Media	Material	Synthetic Fiber
	Enhanced	Throw after use (recommended)
Max Temperature (Continuous)		80°C
Temperature Usage Range		Continuously use time : -20~+100

Please consult for cleaning
Cannot be used as electrical dust collector after filter



Synthetic Pre-filter

DeaMat S/P

- Standard synthetic pre-filter come with Rod Retainer
- Customize size is possible
- Low Initial Pressure Loss
- Easy to install and long service life
- Reusable Frame
- No Glue/Adhesive

Specification

Type	Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Velocity (m/s)	Average Arrestance Efficiency (%)	Pressure Loss (Pa)	
					Initial	Final
EC	24x24x1	594x594x21	2.5	75-80 (G2)	40-50	250
	24x24x2	594x594x46				
	24x24x4	594x594x95				
SD	24x24x1	594x594x21		80-85 (G3)	55-65	
	24x24x2	594x594x46				
	24x24x4	594x594x95				
SU	24x24x1	594x594x21		87-92 (G4)	80-85	
	24x24x2	594x594x46				
	24x24x4	594x594x95				

Measuring method: ASHRAE 52.1 & 52.2

Please discuss for measurement other than standard. Frame is optional

Initial Resistance +/-10%

Material And Operating Condition

Media	Synthetic Fiber
Maximum Temperature	93°C
Washable	Yes
Cellside	Aluminium Extrusion
Support Grid	Galvanized Steel Rod Retainer



Standard Synthetic Fiber Pre-filter

DeaNet

- Standard synthetic pre-filter in the forms of pad
- Customize size is possible
- High dust holding capacity and easy to install
- Have a sturdy, long lasting welded wire mesh support grid

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM / CFM	Filter Grade EN 779	Initial Resistance by % of rated airflow (Pa)			Final Resistance (Pa)
				70%	100%	120%	
12x24x2	290x594x44	28 / 1000	G2	28	45	60	250
24x24x2	594x594x44	56 / 2000					
12x24x4	290x594x95	28 / 1000		20	40	52	
24x24x4	594x594x95	56 / 2000					
12x24x2	290x594x44	28 / 1000	G3	35	65	90	
24x24x2	594x594x44	56 / 2000					
12x24x4	290x594x95	28 / 1000		30	55	75	
24x24x4	594x594x95	56 / 2000					
12x24x2	290x594x44	28 / 1000	G4	50	85	110	
24x24x2	594x594x44	56 / 2000					
12x24x4	290x594x95	28 / 1000		45	80	105	
24x24x4	594x594x95	56 / 2000					

Measuring method: ASHRAE 52.1 & 52.2
Other sizes are available upon request

Initial Resistance +/-10%

Material and Operating Conditions

Cellside	Galvanized Steel, Aluminium
Media	Special Synthetic Fiber
Maximum Operating Temperature	93°C
Support Grid	Welded Wire Mesh Support Grid

Water Repellant Fiber Glass Pre-filter



DeaMat GDM

- Fiber glass filter for mist removal
- Best for air intake with mist at on-shore platform and coastal area
- Low pressure drop
- Economical & long service life

Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Velocity (m/s)	Initial Pressure Loss (Pa)
24x24x3	610x610x75	2.5	57±20%

Please discuss for measurement other than standard

* Processions speed is speed that pass-through the effective area of the filter

Initial Resistance +/-10%

Material And Operating Condition

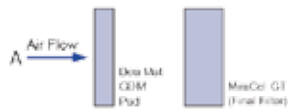
Media	Fiber Glass
Usage Temperature Limit (Continuous)	80°C

Coloured surface is downstream side.

Usage Example

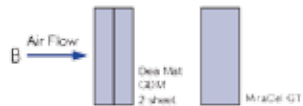
A Air velocity is 2.5m/sec if it contains mild water particles.

* For 50mm frame thickness, use 1 sheet of pad.



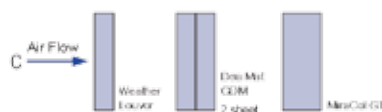
B Air velocity less than 3.0m/sec process, if it contains a substantial amount of water.

* For 100mm thick frame, 2 sheet of pad (2 sheet) used.

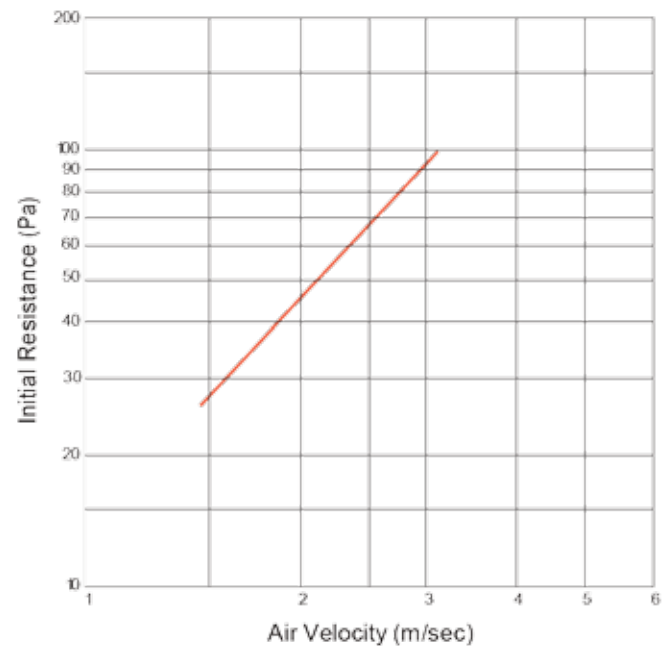


C If process air velocity is below than 4m/sec

* For 100mm thick frame, 2 sheet used. If set directly after weasel bar, will get best effect.



Initial Resistance for DeaMat GDM





Water Repellant Fiber Glass Pre-filter

DeaMat DMG - A90

- As a preliminary filter for the filtration of coarse dust-particles in general ventilation and air conditioning equipment.
- Progressively structured glass fibre filtermedia impregnated throughout with a harmless gel for filtration of coarse dust-particles.
- Colour air inlet side is white, colour clean air side is green.

Specification

Outer Dimension W×H×D (mm)	Air Velocity (ms)	Initial Pressure Loss (Pa)	Final Pressure Loss (Pa)
635x635x110mm	1.5	33Pa	250

Initial Resistance +/-10%

Material And Operating Condition

Gravimetric efficiency	89%
Filtration Class	G3
Intake air velocity	1.5 m/s
Initial pressure drop	33 Pa
Recommended final pressure drop	250 Pa
Temperature resistance	120°C
Dust holding capacity	511 g/m ²
Reaction to fire	non-combustible (Warr. BS 476/4)



Extended surface synthetic pocket filters

MiraDeep Borsa G

- MiraDeep Borsa G is a high performance synthetic media pocket filter. The unique pocket design enables the filter to have high dust holding capacity and long service life characteristic.
- Typically use as prefilter or as a final filter in difficult operating conditions such as variable air volume, repeated fan shut down and turbulent airflow.

Specification

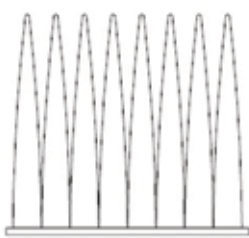
Actual Size (W x H x D) mm	Number of pockets	Gross media area m ² / ft ²	Air flow capacity CMH / CFM	Initial resistance Pa / in W.G.	Filter grade	Arrestance %
592 x 592 x 305	8	3.2 / 35	5100 / 3000	115 / 0.45	G4	90
287 x 592 x 305	4	1.6 / 18	2550 / 1500	115 / 0.45	G4	90
592 x 592 x 405	8	4.2 / 45	5100 / 3000	90 / 0.35	G4	90
287 x 592 x 405	4	2.1 / 23	2550 / 1500	90 / 0.35	G4	90
592 x 592 x 610	8	6.4 / 69	5100 / 3000	65 / 0.26	G4	90
287 x 592 x 610	4	3.2 / 35	2550 / 1500	65 / 0.26	G4	90

Measuring method : ASHRAE 52.1 & 52.2
 Inflammability : UL Class 900

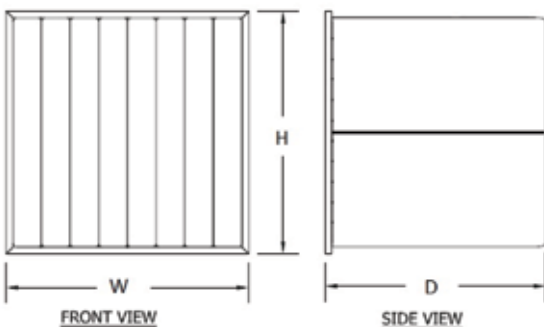
Material and Operating Conditions

Header frame	Galvanised steel (21mm or 25mm)
Media	Synthetic fibre
Efficiency	G4 with 90% arrestance
Recommended final pressure	1.5" WG/ 375Pa
Maximum operating temperature	66°C (150° F)

Outer Dimension Diagram



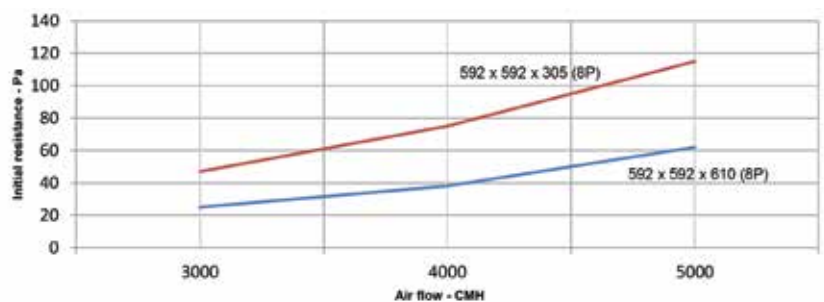
PLAN VIEW



FRONT VIEW

SIDE VIEW

Air flow vs Initial resistance





Roll Type Synthetic Fiber Pre-filter

JS Mat GPM 30 / GPM 60

- Progressive material
- 100% polyester
- Thermal bonded polyester fiber
- Surface treated with special adhesive to prevent dust lost
- Heavy dust holding capacity
- Promote good laminar flow patterns
- Final filter for paint booth system

Specification

Type	Media Dimension				Efficiency (%)	Pressure Loss (Pa)		Air Velocity (m/s)
	Length (m)	Thickness (mm)	Weight (gram/m ²)	Width (m)		Initial	Final	
GPM 30	20	18	350	2	53	23	450	2.5
GPM 60		22	600		58	25	450	

Measuring method : ASHRAE 52.1 - 1992

Initial Resistance +/-10%

Material And Operating Condition

Media	Type	White Ceiling Filter
	Material	100% Polyester
	Surface	Treated with adhesive
	Preserve Method	Throw after use (recommended)
	Scrim	Final layer to create laminar flow patterns
Max Temperature		100°C
Humidity		100% RH
Washability		No



High Temperature Panel Filter

DeaMat HT

- Fiber glass
- Rigid aluminium mesh frame
- Up to 300°C
- High air flow rate
- Low initial pressure drop
- Heavy dust holding capacity
- Longer service life
- Pre-filter for auto mobile and industrial coating lines at hot air ovens

Specification

Type	Actual Size W×H×D (mm)	Colour	Air Flow (CMM/CFM)		Average Arrestance Efficiency (%)	Pressure Loss (Pa)	
			1.5 m/s	2.5 m/s		Initial	Final
HT 250	250x250x14	Beige/ White	8.8 / 311	14.8 / 524	80-85 (G3)	50	250
HT 500	480x480x14		18 / 636	30 / 1059			

3 Other sizes are available upon request

Initial Resistance +/-10%

Material And Operating Condition

Frame	Expanded aluminium
Media	Fiber Glass
Gasket	No
Type	High temp panel
Maximum Temperature	<300°C
Washable	No



Roll Type Synthetic Fiber Pre-filter

DeaMat GHT-200 & GHT-100

- COARSE FILTER BARRIER for high temperature curing ovens to prevent fouling of product surface
- Self-extinguishing according to DIN 53438-F1
- 100% SYNTHETIC
- Excellently suited for application in paint finishing curing ovens of all kind as well as air handling systems processing hot air flows between 100° and 240°C
- The FHT-SERIES are designed to be able to operate at constant high temperatures up to 180°C (FHT-100) and 240°C (FHT-200)
- The FHT-SERIES are constructed to suit different arrestance and pressure drop levels at two different filtration classes G3 and G4.

Specification

Type	Roll Size	Air Velocity m/s	Average Arrestance %	Pressure Drop		Dust Holding Capacity - Asherae Dust (g/m2)
				Initial	Final	
GHT-200	1x20m / 2x20m	1	91 (G4)	41	250	525
GHT-100	1x40m / 2x40m	1	89 (G3)	26	250	475

Initial Resistance +/-10%

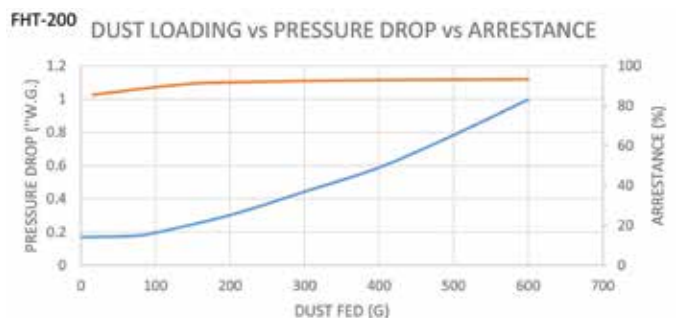
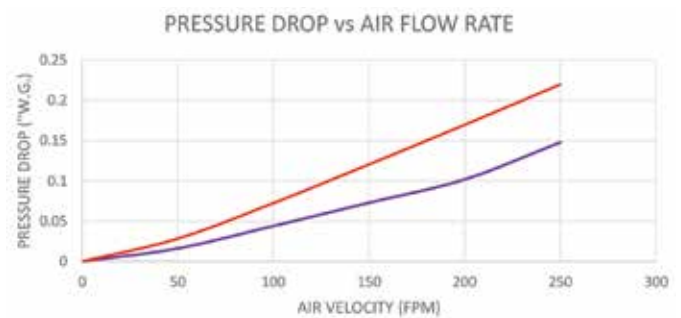
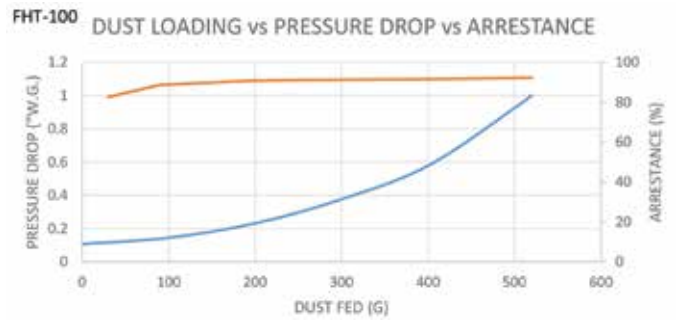
Material And Operating Condition

Unit	GHT-200	GHT-100
°C	240	180
mm	20	10
%	100	100
-	no	no
Roll size standard	1x20M, 1X40M, 2X20M, 2X40M	

PERFORMANCE PARTICULARS (FHT-200 G4)

- FHT-200 G4, WHEN EXPOSED TO TEMPERATURES ABOVE 180°C, DO SLIGHTLY DISCOLOR from light/yellow into toasty brown.
- The discoloration of the FHT-200 G4 DOES NOT AFFECT THE INTEGRITY OR FILTRATION PERFORMANCE of the filter media.
- Filter life depends on CONDITIONS OF USE, and TYPE OF CONTAMINATION PRESENTED.

Initial Resistance for GHT-200 & GHT-100





Fiber Glass Pre-filter For Paint Mist Usage

DeaMat GPM

- Glass fiber with synthetic resin sizing
- Heavy paint holding capacity
- High airflow and economical
- Available in rolls and cut pads
- Filtration of solvent-based paint and lacquer particles in spray booths of the surface treatment

Specification

Type	Roll Size W×H(m)	Thickness (mm)	Dust Holding Capacity (gram/m ²)	Pressure Loss (Pa)	
				Initial	Final
GPM 220	2x20	50	2200	47	200

Measuring method : 90% BS 2831 - n°2 test
Other sizes are available upon request

Initial Resistance +/-10%

Material And Operating Condition

Media	100% Fiber Glass
Maximum Temperature	<100°C
Colour	Green/white
Humidity	100% RH

Coloured surface is downstream side.



Fiber Glass Pre-filter

DeaMat G50 G60 G85 G90

- Progressive density holding fiber glass pad
- Categorized by 4 type of arrestance efficiency
- Customize size is possible
- Available in water resistance beverage board

Specification

Type	Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Velocity (m/s)	Average Arrestance	Pressure Loss (Pa)		Dust Holding Capacity(g/m ²)
					Intial	Final	
G50	24x24x1	594x594x22	2.5	50	35	134	510
G60	24x24x2	594x594x44		60	47	134	600
G85	24x24x2	594x594x44		85	44	147	1050
G90	24x24x4	594x594x95		90	78±20%	373	2800 (Test: AC-Fine)

Please discuss for measurement other than standard.

Initial Resistance +/-10%

Material And Operating Condition

Media	Fiber Glass
Usage Temperature Limit (Continuous)	80°C

Colored surface is downstream side.



Standard Synthetic Fiber Pre-filter

DeaKleen EC/SD/SU/SP

- Pre-filter for HVAC applications
- Low pressure drop pleated design resulting in lower energy cost
- Disposable pleated panel filter
- Robust construction for reliable construction
- Moisture resistant beverage board
- Mixture of cotton and synthetic fiber
- Alternative frame available upon request

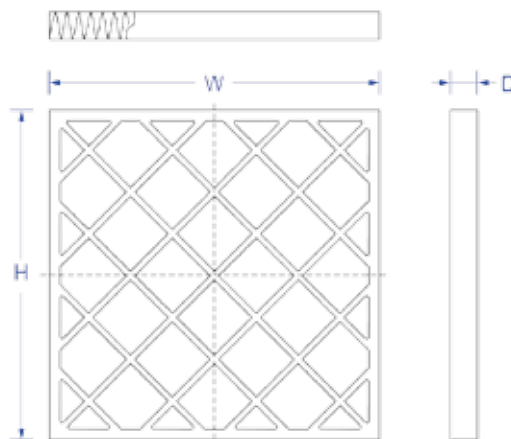
Specification

Type	Nominal Size W×H×D (in)	Actual Size WxHxD (mm)	Air Flow CMM / CFM	No of Pleats	Average Arrestance Efficiency (%)		Initial Resistance (Pa)	Final Resistance (Pa)
					EN779	ASHRAE		
SP	12x24x2	290x594x44	28 / 1000	15	G4 (90-92%)	Merv 8 (30-35%)	63	250
	20x24x2	492x594x44	47 / 1680	24				
	24x24x2	594x594x44	56 / 2000	28				
	12x24x4	290x594x95	28 / 1000	19				
	20x24x4	492x594x95	47 / 1680	17				
SU	24x24x4	594x594x95	56 / 2000	21				
	12x24x1	290x594x22	28 / 1000	14		Merv 7 (25-30%)	68	
	20x24x1	492x594x22	47 / 1680	24				
	24x24x1	594x594x22	56 / 2000	28				
	12x24x2	290x594x44	28 / 1000	15				
	20x24x2	492x594x44	47 / 1680	24				
	24x24x2	594x594x44	56 / 2000	28				
12x24x4	290x594x95	28 / 1000	10					
SD	20x24x4	492x594x95	47 / 1680	17		Merv 7 (25-30%)	50	
	24x24x4	594x594x95	56 / 2000	21				
	12x24x2	290x594x44	28 / 1000	11				
	20x24x2	492x594x44	47 / 1680	17				
	24x24x2	594x594x44	56 / 2000	21				
EC	12x24x4	290x594x95	28 / 1000	9	Merv 7 (25-30%)	63		
	20x24x4	492x594x95	47 / 1680	14				
	24x24x4	594x594x95	56 / 2000	18				
	12x24x2	290x594x44	28 / 1000	8				
	20x24x2	492x594x44	47 / 1680	12				
	24x24x2	594x594x44	56 / 2000	15				
EC	12x24x4	290x594x95	28 / 1000	7	Merv 7 (25-30%)	50		
	20x24x4	492x594x95	47 / 1680	12				
	24x24x4	594x594x95	56 / 2000	15				
	24x24x4	594x594x95	56 / 2000	15				

Measuring method : ASHRAE 52.1 & 52.2
 Inflammability : UL Class 900
 Other sizes are available upon request

Initial Resistance +/-10%

Outer Dimension Diagram



Material And Operating Condition

Cellside	Beverage Board, Double Wall
Media	Special Synthetic Fiber
Maximum Operating Temperature	93°C
Support Grid	Welded Wire Mesh Support Grid



Standard Synthetic Fiber Pre-filter

DeaKleen MG

- Classified M5 in accordance with EN779
- High loft glass fibre pleated media increase dust holding capacity
- Radial pleats for even dust loading and welded wire grid for stabilizing the media
- High wet-strength beverage board frame
- Available in 2" & 4"
- UL 900 certified
- Available with anti-microbial feature

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM / CFM	No of Pleats	Average Arrestance Efficiency (%)		Initial Resistance (Pa)	Final Resistance (Pa)
				EN779	ASHRAE		
12x24x2	290x594x44	28 / 1000	15	M5	Merv 10 (45-55%)	115	300
20x20x2	492x492x44	40 / 1430	24				
20x24x2	492x594x44	47 / 1680	24				
20x25x2	492x619x44	50 / 1786	24				
24x24x2	594x594x44	57 / 2036	28				
12x24x4	290x492x95	28 / 1000	10			100	
20x20x4	492x492x95	40 / 1430	17				
20x25x4	492x619x95	50 / 1786	17				
24x24x4	594x594x95	57 / 2036	21				
29x25x4	720x619x95	71 / 2536	27				

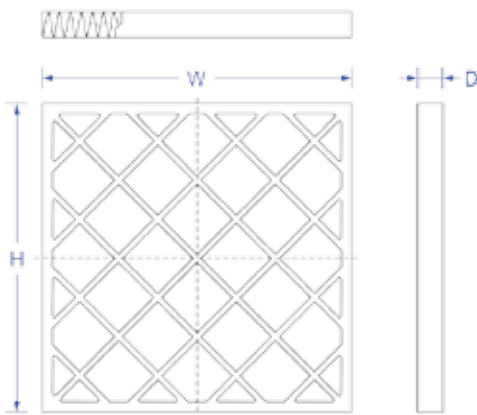
Measuring method : ASHRAE 52.1 & 52.2
 Inflammability : UL Class 900
 Other sizes are available upon request

Initial Resistance +/-10%

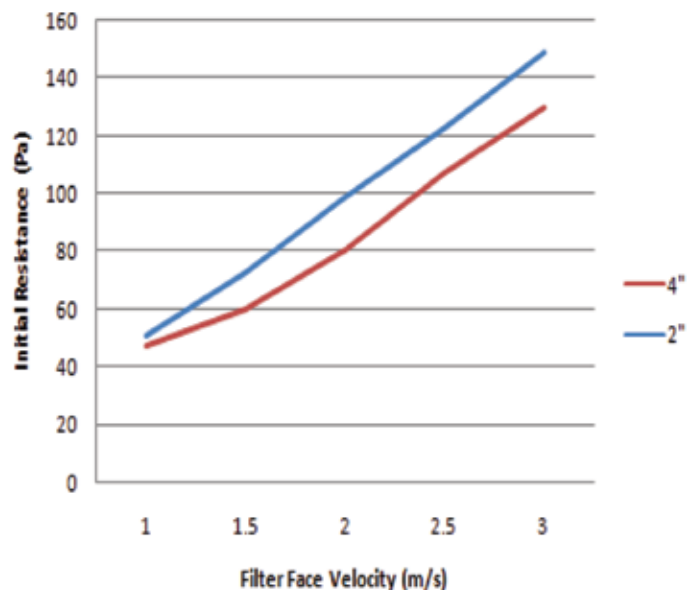
Material and Operating Conditions

Cellside	Beverage Board, Double Wall
Media	Special Synthetic Fiber
Maximum Operating Temperature	93°C
Support Grid	Welded Wire Mesh Support Grid

Outer Dimension Diagram



Initial Resistance DeaKleen MG





High Performance Synthetic Fiber Pre-filter

DeaKleen GT

- Air filter for compressors and gas turbines
- With a special selection media, DeaKleen GT has higher dust holding capacity
- Lower pressure drop
- Pleating pattern makes the filter has longer lifespan

Specification

Model	Dimension W×H×D (mm)	Rated Air Flow m ³ /min	Average Arrestance (Weight method %)	Pressure Drop (Pa)		Dust Holding Capacity
				Initial	Final	
DKH-X90-FFH	594x594x95mm	56/70	90	49/80 +/- 20%	294	550/440

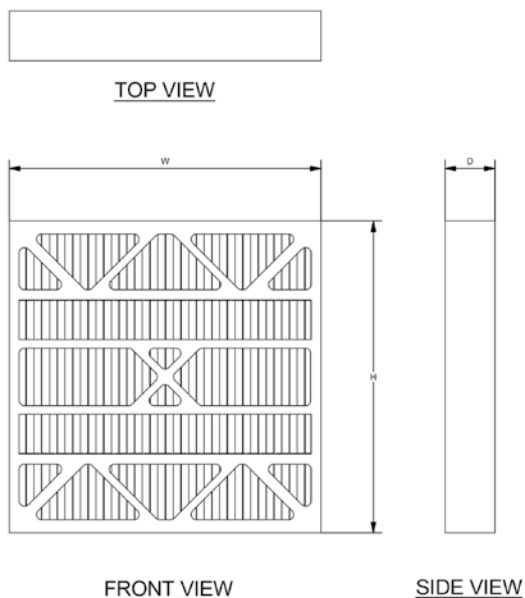
Measuring method : ASHRAE 52.1 & 52.2
 Inflammability : UL Class 900
 Other sizes are available upon request

Initial Resistance +/-10%

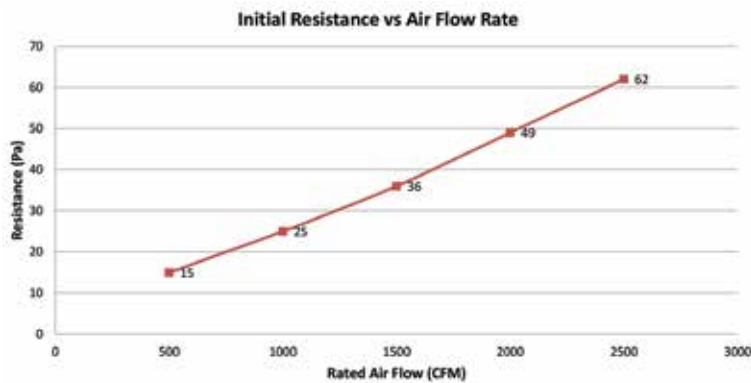
Material and Operating Conditions

Media	Synthetic fiber
Cell side	Cardboard
Continuos max temperature	93°C

Outer Dimension Diagram



Initial Resistance DeaKleen GT





Standard Synthetic Fiber Pre-filter

DeaKleen Anti-Microbial

- Pre-filter for HVAC applications
- Low pressure drop pleated design resulting in lower energy cost
- Disposable pleated panel filter
- Robust construction for reliable construction
- Moisture resistant beverage board
- Mixture of cotton and synthetic fiber
- Alternative frame available upon request

Specification

Type	Nominal Size W×H×D (in)	Actual Size WxHxD (mm)	Air Flow CMM / CFM	No of Pleats	Average Arrestance Efficiency (%)		Initial Resistance (Pa)	Final Resistance (Pa)
					EN779	ASHRAE		
SP	12x24x2	290x594x44	28 / 1000	15	G4 (90-92%)	Merv 8 (30-35%)	63	250
	20x24x2	492x594x44	47 / 1680	24				
	24x24x2	594x594x44	56 / 2000	28				
	12x24x4	290x594x95	28 / 1000	19				
	20x24x4	492x594x95	47 / 1680	17				
	24x24x4	594x594x95	56 / 2000	21				
SU	12x24x1	290x594x22	28 / 1000	14		Merv 7 (25-30%)	68	
	20x24x1	492x594x22	47 / 1680	24				
	24x24x1	594x594x22	56 / 2000	28				
	12x24x2	290x594x44	28 / 1000	15				
	20x24x2	492x594x44	47 / 1680	24				
	24x24x2	594x594x44	56 / 2000	28				
	12x24x4	290x594x95	28 / 1000	10				
	20x24x4	492x594x95	47 / 1680	17				
SD	24x24x4	594x594x95	56 / 2000	21		50		
	12x24x2	290x594x44	28 / 1000	11				
	20x24x2	492x594x44	47 / 1680	17				
	24x24x2	594x594x44	56 / 2000	21				
	12x24x4	290x594x95	28 / 1000	9				
	20x24x4	492x594x95	47 / 1680	14				
EC	24x24x4	594x594x95	56 / 2000	18	63			
	12x24x2	290x594x44	28 / 1000	8				
	20x24x2	492x594x44	47 / 1680	12				
	24x24x2	594x594x44	56 / 2000	15				
	12x24x4	290x594x95	28 / 1000	7				
	20x24x4	492x594x95	47 / 1680	12				
	24x24x4	594x594x95	56 / 2000	15	50			

Measuring method : ASHRAE 52.1 & 52.2

Inflammability : UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

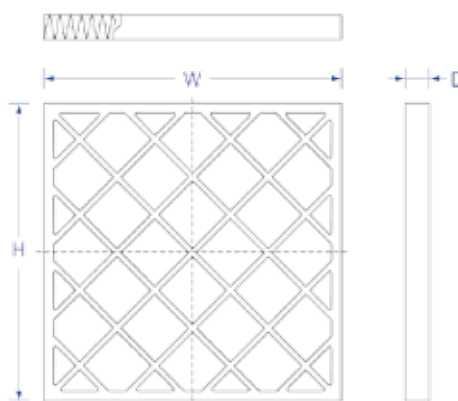
Material And Operating Condition

Cellside	Beverage Board, Double Wall
Media	Special Synthetic Fiber
Maximum Operating Temperature	93°C
Support Grid	Welded Wire Mesh Support Grid

• Anti-microbial (Intercept) Feature

1. Safe antimicrobial (intercept) for human & environment
The harmless intercept is safe to human and environment.
2. Wide range of trapping performance
The efficiency performance, air flow, pressure drop of filter impregnated with antimicrobial (intercept) is no different from standard filter.
3. Exceptional anti-microbial effect
Strengthen to deal with gram-negative bacteria. Antimicrobial effect is permanent & continuous.

Outer Dimension Diagram





Metal Type Pre-filter

Grease Filter

- Standard, permanent type, metal washable filters
- For air or Grease Applications
- G2 class as per EN779
- Multiple layers of corrugated fine mesh and expanded metal media
- Available as standard 1", 2" & 4" depths
- Customize frames & other sizes are possible
- Completely washable

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow (CMM/CFM)		Resistance (Pa)	
		@2.5 m/s	@3.2 m/s	Initial	Final
12x24x2	290x594x44	28 / 1000	35 / 1250	25@2.5 m/s	100
24x24x2	594x594x44	56 / 2000	70 / 2500		

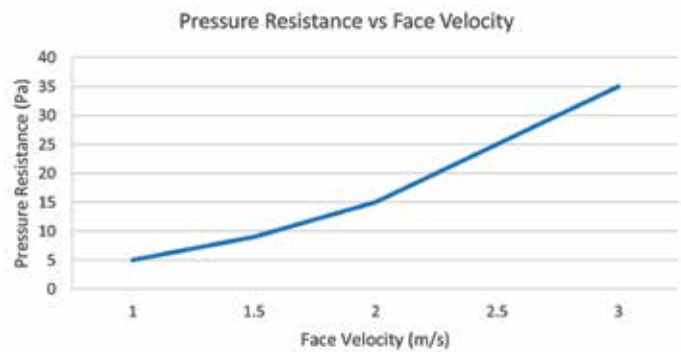
Measuring method : EN779
Other sizes are available upon request

Initial Resistance +/-10%

Material And Operating Condition

Cellside	Stainless Steel, Galvanized Steel
Media	Stainless Steel, Aluminium (Multiple layers of corrugated and fine mesh expanded metal sheets)
Maximum Operating Temperature	up to 300°C

Airflow Resistance



* Filter size: 24x24x2"



Synthetic Type Medium High Performance Filter

MiraDeep Borsa

- Available in efficiencies M6, F7, F8 and F9
- Long life, high dust holding capacity
- Aerodynamically designed pocket configuration
- Synthetic media with sturdy construction
- Easy installation
- Available for header size 21mm and 25mm

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	No. of Pockets	Rated Air Flow CMM / CFM	Rated Initial Resistance (Pa)				Final Resistance (Pa)
				M6 60-65% MERV 11	F7 80-85% MERV 13	F8 90 - 95% MERV 14	F9 > 95% MERV 15	
24x24x36	594x594x900	10	56 / 2000	65	75	85	95	450
24x24x36	594x594x900	8	56 / 2000	50	60	65	72	
24x24x36	594x594x900	6	56 / 2000	55	65	70	77	
12x24x36	289x594x900	4	28 / 1000	50	60	65	72	
12x24x36	289x594x900	3	28 / 1000	55	65	70	77	
24x24x30	594x594x750	10	56 / 2000	65	70	85	95	
24x24x30	594x594x750	8	56 / 2000	55	65	78	86	
24x24x30	594x594x750	6	56 / 2000	60	75	90	100	
12x24x30	289x594x750	5	28 / 1000	65	70	85	95	
12x24x30	289x594x750	4	28 / 1000	55	65	78	86	
12x24x30	289x594x750	3	28 / 1000	60	75	90	100	
24x24x21	594x594x530	10	56 / 2000	90	95	135	149	
24x24x21	594x594x530	8	56 / 2000	85	105	130	143	
24x24x21	594x594x530	6	56 / 2000	90	120	140	154	
12x24x21	289x594x530	5	28 / 1000	90	95	135	149	
12x24x21	289x594x530	4	28 / 1000	85	105	130	143	
12x24x21	289x594x530	3	28 / 1000	90	120	140	154	
24x24x15	594x594x380	8	56 / 2000	80	130	145	160	
12x24x15	289x594x380	4	28 / 1000	80	130	145	160	
24x24x15	594x594x380	6	56 / 2000	85	135	180	200	
12x24x15	289x594x380	3	28 / 1000	85	135	180	200	

Measurement method : ASHRAE 52.1 & 52.2 EN779

Inflammability : UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

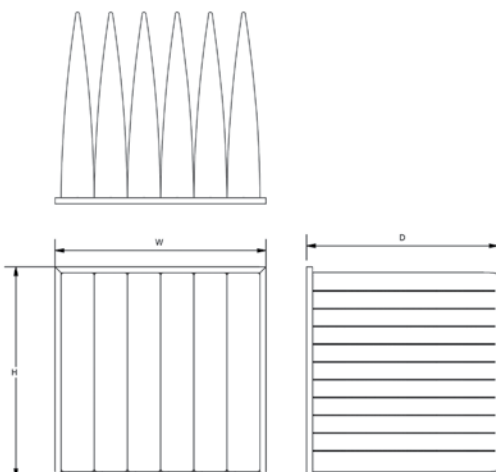
Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (continuous)	95%RH

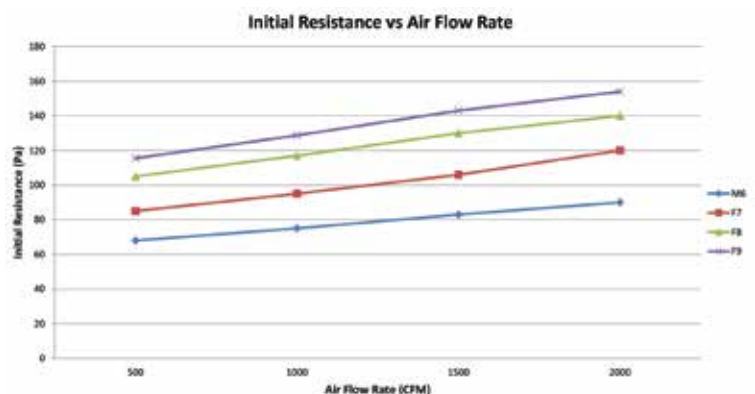
Material

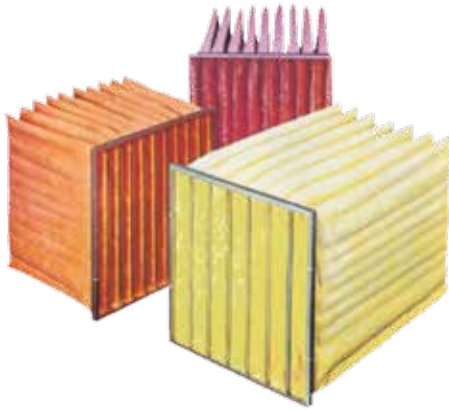
Header	Galvanized steel (Single Header)
Media	Synthetic Fiber

Outer Dimension Diagram



Initial Resistance for MiraDeep Borsa





Fibre Glass Type Medium High Performance Filter

MiraDeep Borsa FG

- Available in efficiencies M6, F7 and F8
- Long life, high dust holding capacity
- Low pressure resistance using new stitching technology
- Aerodynamically pattern pocket for optimum airflow

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	No. of Pockets	AirFlow CMM /CFM	Weight (kg)	Average Efficiency (%)	Pressure Resistance(Pa)			
						Initial	Final		
24x24x36	594×594×920	6	56 / 2000	2.3	F8 90-95% MERV 14	118	450		
12x24x36	289×594×920	3	28 / 1000	1.3		118			
24x24x20	594×594×514	8	56 / 2000	2.2		167			
12x24x20	289×594×514	4	28 / 1000	1.3		167			
24x24x36	594×594×920	6	56 / 2000	2.3	F7 80-85% MERV 13	78		450	
12x24x36	289×594×920	3	28 / 1000	1.3		78			
24x24x20	594×594×514	8	56 / 2000	2.2		118			
12x24x20	289×594×514	4	28 / 1000	1.3		118			
24x24x36	594×594×920	6	56 / 2000	2.3	M6 60-65% MERV 11	59			450
12x24x36	289×594×920	3	28 / 1000	1.3		59			
24x24x20	594×594×514	8	56 / 2000	2.2		78			
12x24x20	289×594×514	4	28 / 1000	1.3		78			

Measurement method : ASHRAE 52.1 & 52.2 EN779
 Inflammability : UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

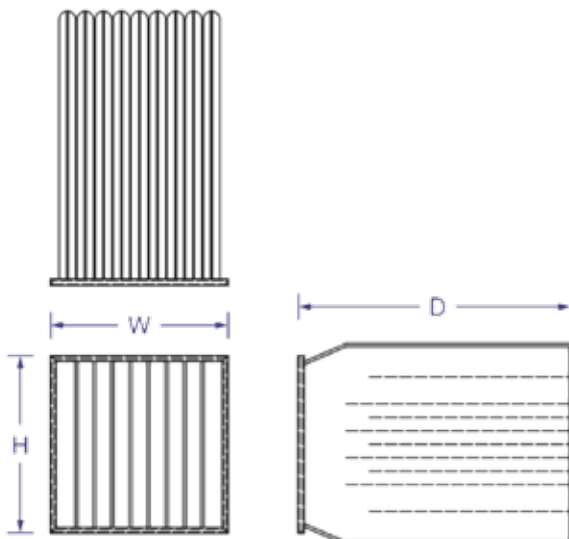
Operating Condition

Maximum Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH

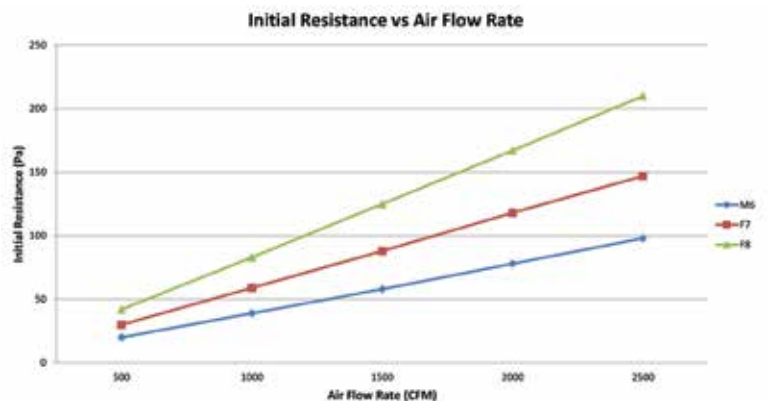
Material

Header	Galvanized Steel (Single header)
Media	Glass Fiber

Outer Dimension Diagram



Initial Resistance for MiraDeep Borsa FG





Rigid Type Medium High Efficiency Filter

MiraCel MB

- Available in efficiencies M5, M6, F7 and F8
- Includes an enclosing frame of corrosion-resistant galvanized steel
- Includes unique bridge style plastic contour
- Stabilizers on the air entering and air exiting sides, to ensure pleat support through turbulent or varying airflows.

Specification

Nominal Size WxHxD (mm)	Actual Size WxHxD (mm)	Air Flow CMM / CFM	Average Efficiency (%)	Resistance (in. W.G)	
				Initial	Final
24x24x12	594x594x292	56 / 2000	F8 90-95% MERV 14	104	375
20x24x12	492x594x292	47 / 1680			
20x20x12	492x492x292	40 / 1430			
12x24x12	289x594x292	28 / 1000			
24x24x12	594x594x292	56 / 2000	F7 80-85% MERV 13	77	
20x24x12	492x594x292	47 / 1680			
20x20x12	492x492x292	40 / 1430			
12x24x12	289x594x292	28 / 1000			
24x24x12	594x594x292	56 / 2000	M6 60-65% MERV 11	44	
20x24x12	492x594x292	47 / 1680			
20x20x12	492x492x292	40 / 1430			
12x24x12	289x594x292	28 / 1000			
24x24x12	594x594x292	56 / 2000	M5 40-45% MERV 10	42	
20x24x12	492x594x292	47 / 1680			
20x20x12	492x492x292	40 / 1430			
12x24x12	289x594x292	28 / 1000			

Measurement method : ASHRAE 52.1 & 52.2 EN779
 Inflammability : UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

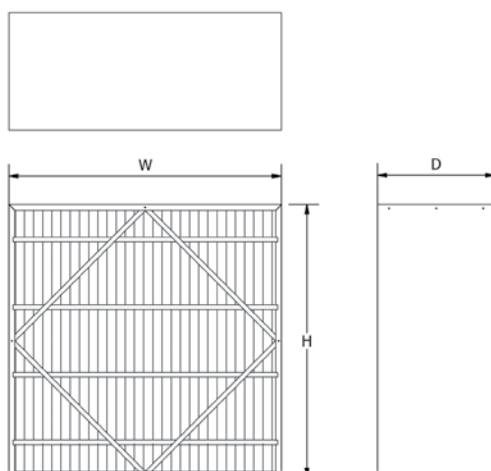
Operating Condition

Maximum Operating Temperature	93°C
Usage Humidity Limit (continuous)	95%RH

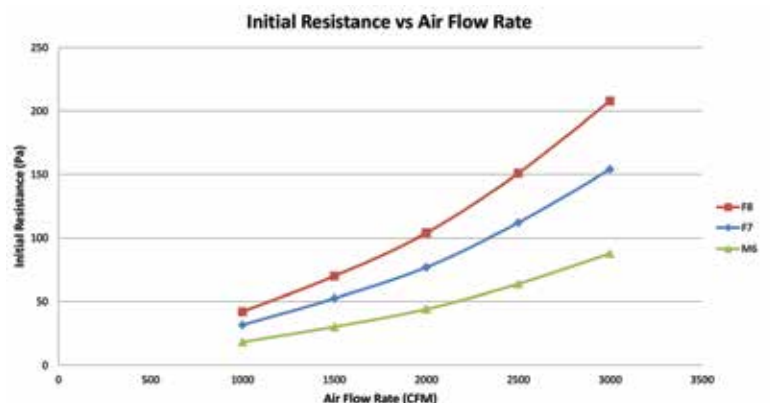
Material

Cellside	Galvanized Steel
Media	Meltblown synthetic media protected by a scrim on the air leaving side
Header	Double Header, Single Header and None Header

Outer Dimension Diagram



Initial Resistance for MiraCel MB





Mini-Pleat Type Medium High Efficiency Filter

MiraCel II MH

- Available in efficiency M6, F7, F8 and F9
- Available for single header (SH), double header (DH), and none header (NH)
- 4" deep high efficiency, light weight, reduce shipping cost and storage space
- Easy Handling, installation and removal
- Microglass paper with water repellent binder
- Available with anti-microbial

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM / CFM	Average Efficiency (%)	Pressure Resistance (Pa)	
				Initial	Final
12x24x4	289x594x95/105	28 / 1000	F8 90-95% MERV 14	165	375
20x24x4	492x594x95/105	46 / 1643			
24x24x4	594x594x95/105	56 / 2000			
12x24x4	289x594x95/105	28 / 1000	F7 80-85% MERV 13	145	
20x24x4	492x594x95/105	46 / 1643			
24x24x4	594x594x95/105	56 / 2000			
12x24x4	289x594x95/105	28 / 1000	M6 60-65% MERV 11	95	
20x24x4	492x594x95/105	46 / 1643			
24x24x4	594x594x95/105	56 / 2000			

Measurement method : ASHRAE 52.1 & 52.2 EN779
 Inflammability : UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

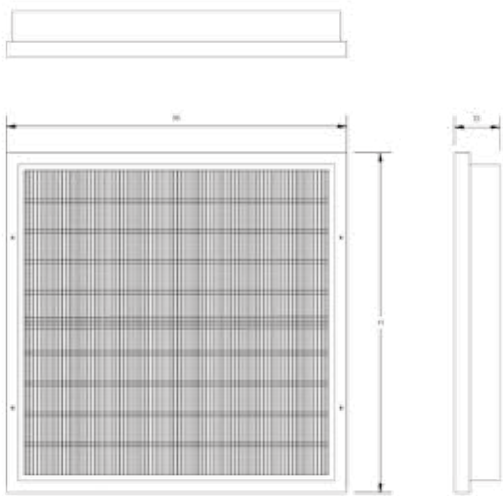
Operating Condition

Maximum Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH

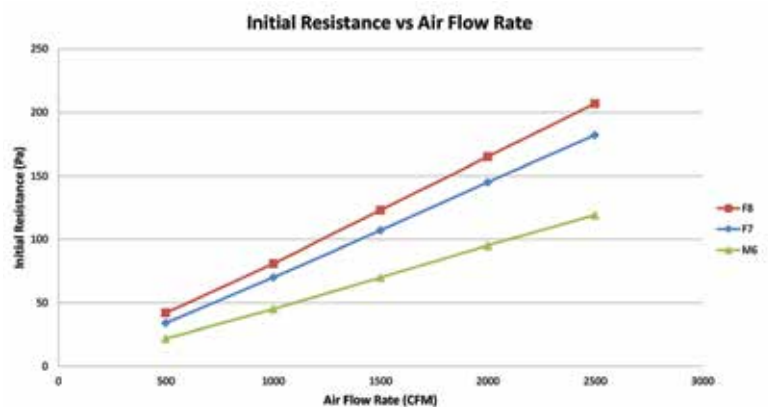
Material

Cellside	Galvanized steel
Media	Fiber Glass
Separator	Hot Melt
Sealant	Adhesive

Outer Dimension Diagram



Initial Resistance for MiraCel II MH





Mini-Pleat Type Medium High Efficiency Filter

MiraCel II

- Available in efficiencies M6, F7, F8 and F9
- 4" depth, light weight, reduce shipping cost and storage space
- Easy handling, installation and removal
- Highly moisture resistance and sturdy beverage board frame
- Microglass paper with water repellent binder
- Available with anti-microbial

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM / CFM	Average Efficiency (%)	Pressure Resistance (Pa)	
				Initial	Final
12x24x4	289x594x95	28 / 1000	F8 90-95% MERV 14	165	375
20x24x4	492x594x95	46 / 1643			
24x24x4	594x594x95	56 / 2000			
12x24x4	289x594x95	28 / 1000	F7 80-85% MERV 13	145	
20x24x4	492x594x95	46 / 1643			
24x24x4	594x594x95	56 / 2000			
12x24x4	289x594x95	28 / 1000	M6 60-65% MERV 11	95	
20x24x4	492x594x95	46 / 1643			
24x24x4	594x594x95	56 / 2000			

Measurement method : ASHRAE 52.1 & 52.2 EN779
 Inflammability : UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

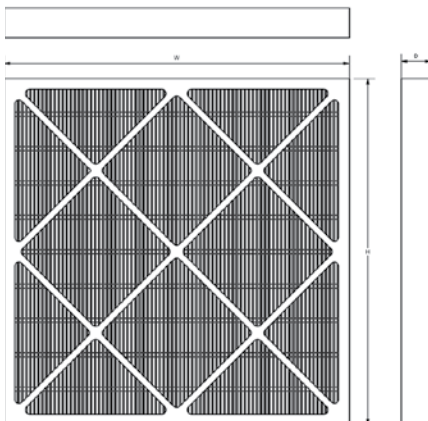
Operating Condition

Maximum Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH

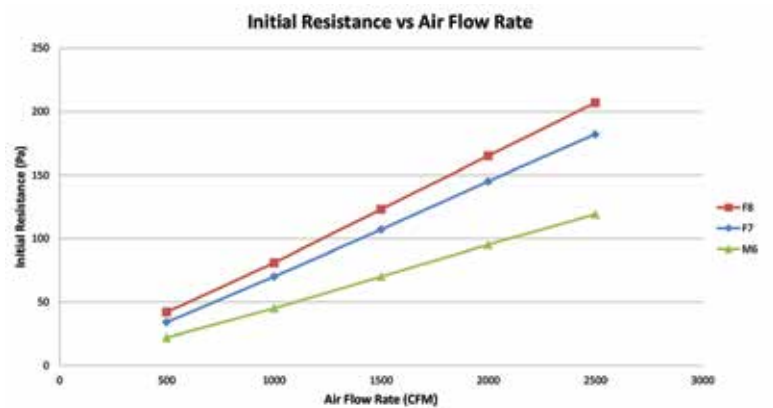
Material

Cellside	Beverage Board / Galvanized Steel
Media	Fiber Glass
Separator	Hot Melt
Sealant	Adhesive

Outer Dimension Diagram



Initial Resistance for MiraCel II





Standard Type Medium High Efficiency Filter

MiraCel & MiraCel with Antimicrobial

- Available in M6, F7, F8 and F9
- Box type filter with wet-laid fine sheet media ideal for high humidity application
- Easy Installation
- Available in 6" and 12" depth
- Available for High Temperature Operation

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM / CFM	Weight (kg)	Average Efficiency (%)	Pressure Resistance (Pa)	
					Initial	Final
24x24x12	594×594×292	56 / 2000	7.4	F8 90-95% MERV 14	145	375
12x24x12	289×594×292	28 / 1000	4.5			
20x24x12	492×594×292	46 / 1643	5.5		88	375
24x24x6	594×594×149	28 / 1000	3.8			
12x24x6	289×594×149	14 / 500	2.3			
20x24x6	492×594×149	23 / 822	2.8			
24x24x12	594×594×292	56 / 2000	6.9	F7 80-85% MERV 13	130	375
12x24x12	289×594×292	28 / 1000	4.3			
20x24x12	492×594×292	46 / 1643	5.3		70	375
24x24x6	594×594×149	28 / 1000	3.5			
12x24x6	289×594×149	14 / 500	2.2			
20x24x6	492×594×149	23 / 822	2.7			
24x24x12	594×594×292	56 / 2000	6.9	M6 60-65% MERV 11	97	375
12x24x12	289×594×292	28 / 1000	4.3			
20x24x12	492×594×292	46 / 1643	5.3		40	375
24x24x6	594×594×149	28 / 1000	3.5			
12x24x6	289×594×149	14 / 500	2.2			
20x24x6	492×594×149	23 / 822	2.7			

Measurement method : ASHRAE 52.1 & 52.2 EN 779

Initial Resistance +/-10%

Inflammability : UL Class 900 Other size are available upon request

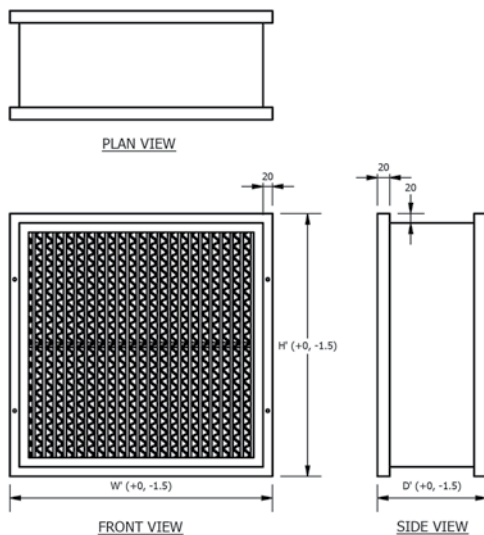
Operating Condition

Maximum Operating Temperature	93°C
Usage Humidity Limit (Continuous)	95%RH

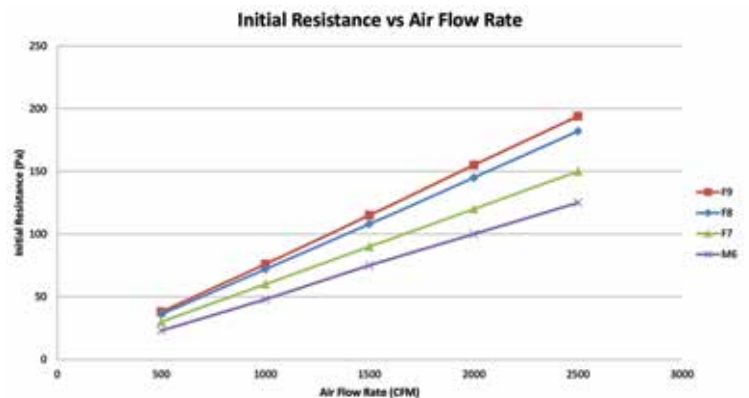
Material

Cellside	Galvanized Steel
Media	Fiber Glass
Separator	Aluminium
Sealant	Polyurethane
Header	Single, Double or None

Outer Dimension Diagram



Initial Resistance for MiraCel





High Temperature Type Medium High Efficiency Filter

MiraCel HT

- Available in efficiency M6, F7, F8 and F9
- High temperature operation
- Aluminium separator to maintain media structure
- Secondary filter for automobile and Industrial coating lines at hot air ovens

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM / CFM	Weight (kg)	Average Efficiency (%)	Pressure Resistance (Pa)	
					Initial	Final
24x24x12	594×594×292	56 / 2000	7.4	F8 90-95% MERV 14	145	375
12x24x12	289×594×292	28 / 1000	4.5			
20x24x12	492×594×292	46 / 1643	5.5		88	375
24x24x6	594×594×149	28 / 1000	3.8			
12x24x6	289×594×149	14 / 500	2.3			
20x24x6	492×594×149	23 / 822	2.8			
24x24x12	594×594×292	56 / 2000	6.9	F7 80-85% MERV 13	130	375
12x24x12	289×594×292	28 / 1000	4.3			
20x24x12	492×594×292	46 / 1643	5.3		70	375
24x24x6	594×594×149	28 / 1000	3.5			
12x24x6	289×594×149	14 / 500	2.2			
20x24x6	492×594×149	23 / 822	2.7			
24x24x12	594×594×292	56 / 2000	6.9	M6 60-65% MERV 11	97	375
12x24x12	289×594×292	28 / 1000	4.3			
20x24x12	492×594×292	46 / 1643	5.3		40	375
24x24x6	594×594×149	28 / 1000	3.5			
12x24x6	289×594×149	14 / 500	2.2			
20x24x6	492×594×149	23 / 822	2.7			

Measurement method : ASHRAE 52.1 & 52.2 EN 779

Initial Resistance +/-10%

Inflammability : UL Class 900 Other size are available upon request

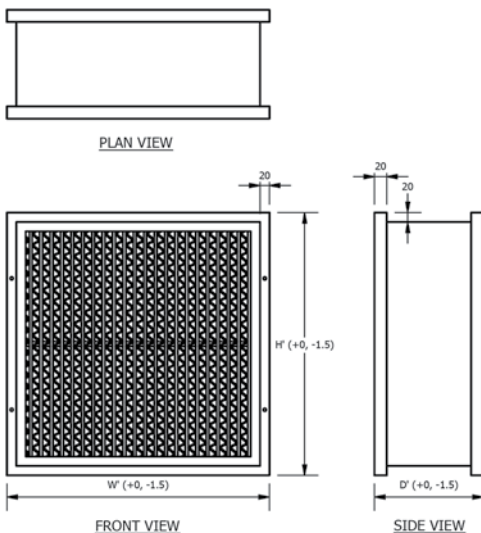
Operating Condition

Maximum Operating Temperature	200°C
Usage Humidity Limit (Continuous)	95%RH

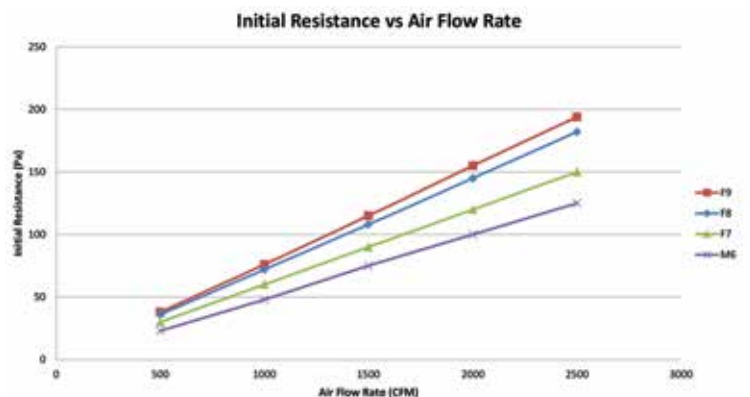
Material

Cellside	Galvanized Steel
Media	Fiber Glass
Seperator	Aluminium
Sealant	Fiber Glass
Header	Single, Double or None

Outer Dimension Diagram



Initial Resistance for MiraCel HT





Standard Type Medium High Efficiency Filter

MiraCel GT

Description

- MiraCel GT high efficiency filters are designed to work under extreme operating conditions where severe surging or pulsation occur. Available in high efficiency, high dust holding capacity, low average operating resistance, light weight, easy to install, longer life than standard filters and less filter change out.

Application

- MiraCel GT are heavy duty filters for use in ventilation systems with high efficiency requirements, even under extreme operating conditions such as those found in gas turbines, centrifugal compressors, and similar equipments.

MiraCel GT - Rm

Model Number	RM 60	RM 60	RM 90	RM 90
Nominal filter size (inch)	24x24x12	24x24x6	24x24x12	24x24x6
Actual filter size (mm) W x H x D	594x594x292	594x594x149	594x594x292	594x594x149
Rated air flow (CMH / CFM)	3400 / 2000	1700 / 1000	3400 / 2000	1700 / 1000
Initial resistance at rated air flow (Pa / inWG)	135 / 0.53	135 / 0.53	180 / 0.70	180 / 0.70
Recommended final resistance (Pa / inWG)	635 / 2.5	635 / 2.5	635 / 2.5	635 / 2.5
Average atmosphere dust spot efficiency (%)	66	66	88	88
Average arrestance by weight on AC Fine Test Dust (%)	98	98	99	99
Media type	Fine woven glass mat			
Temperature limit	Up to 120° C continuous			

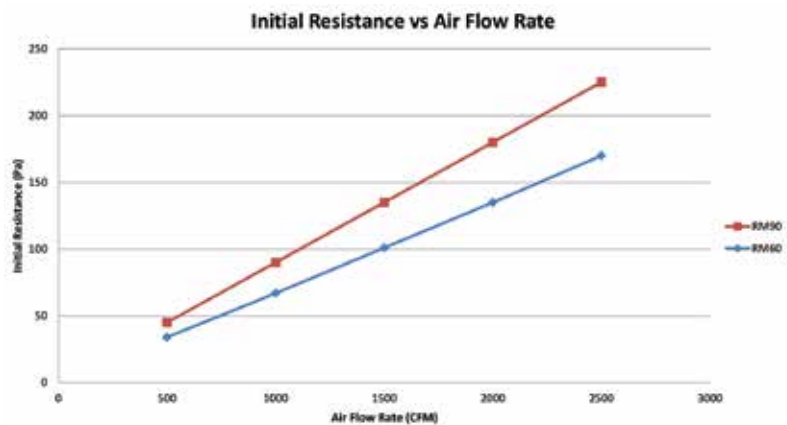
Measurement method : ASHRAE 52.1 & 52.2 EN779
 Inflammability : UL Class 900

Initial Resistance +/-10%

Material and operating Condition

Cellside	Galvanised steel
Header	Galvanised steel
Media	Moisture resistant with graduated density fibre glass media
Faceguard	Welded Galvanized Steel wire
Separators	Aluminium / PET
Gasket	Neoprene and other options
Sealant	Polyurethane sealant or fibre glass
Recommended Final Resistant	630 Pa or 2.5 in w.g.
Temperature	Up to 80°C for XW model, Up to 150°C for RM, XL and XN
Filter Class	Refer to technical data

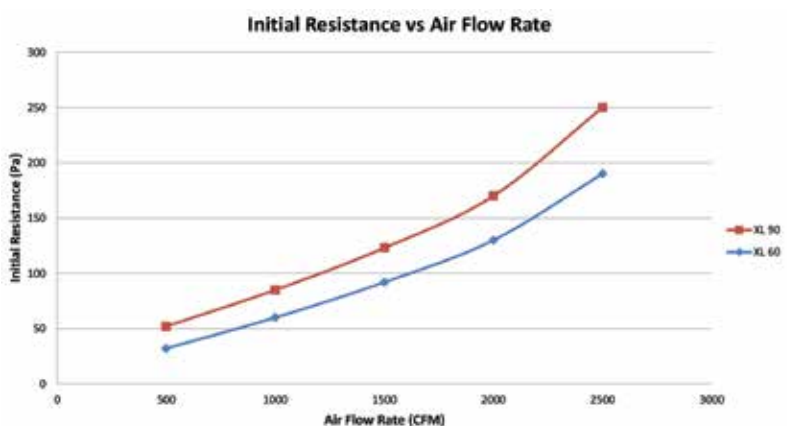
Initial Resistance for MiraCel GT RM



MiraCel GT-XL

Type	XL 60	XL 90
Nominal filter size (inch)	24x24x12	24x24x12
Actual filter size (mm) W x H x D	594x594x292	594x594x292
Initial resistance (Pa / inWG)		
at 4250 CMH or 2500 CFM	190 / 0.75	250 / 1.00
at 3400 CMH or 2000 CFM	130 / 0.51	170 / 0.67
Final resistance (Pa / inWG)	635 / 2.5	635 / 2.5
Average atmosphere dust spot efficiency (%)	70	90
Average arrestance by weight on AC fine test dust (%)	98.2	99.95
Media type	Fiber glass	
Temperature limit	Up to 120°C	

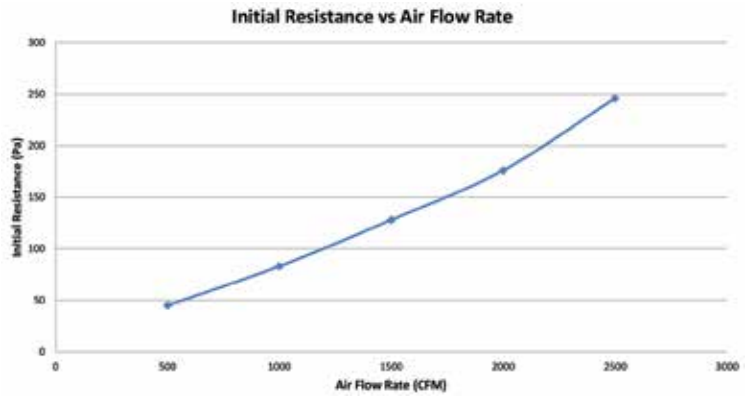
Initial Resistance for MiraCel GT XL



MiraCel GT-XW

Type	XW 98
Nominal filter size (inch)	24x24x12
Actual size (mm) W x H x D	592x592x292
Initial resistance (Pa / inWG)	
at 4250 CMH / 2500 CFM	246 / 0.96
at 3400 CMH / 2000 CFM	176 / 0.70
Final resistance (Pa / inWG)	635 / 2.5
Burst pressure (Pa / inWG)	> 6400
Average efficiency (%)	97
Average arrestance on AC fine test dust (%)	100

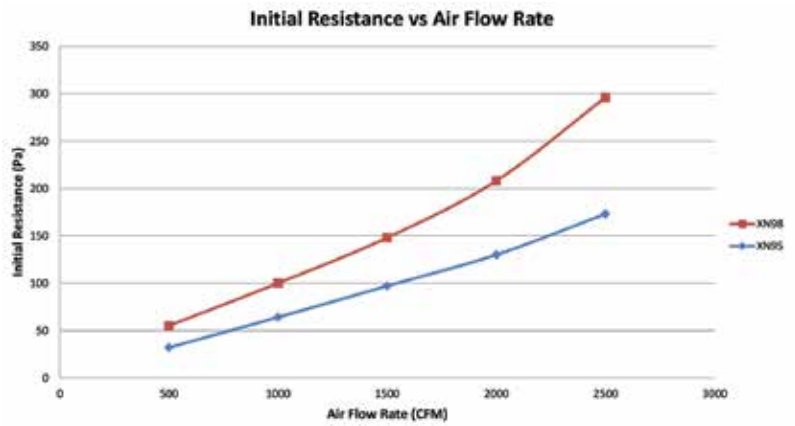
Initial Resistance for MiraCel GT XW



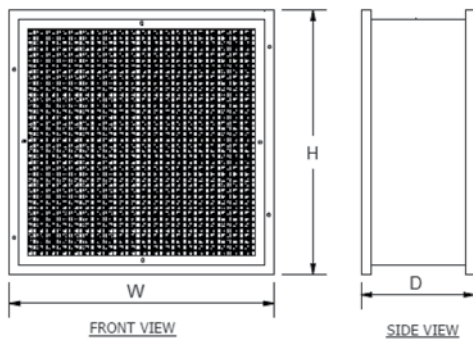
MiraCel GT-XN

Type	XN 95	XN 98
Nominal filter size (inch)	24x24x12	24x24x12
Actual size (mm) W x H x D	592x592x292	592x592x292
Initial resistance (Pa / inWG)		
at 4250 CMH / 2500 CFM	173 / 0.68	296 / 1.16
at 3400 CMH / 2000 CFM	130 / 0.51	208 / 0.82
Final resistance (Pa / inWG)	635 / 2.5	635 / 2.5
Burst pressure (Pa / inWG)	> 6400	> 6400
Average efficiency (%)	94	96
Average arrestance on AC fine test dust (%)	100	100

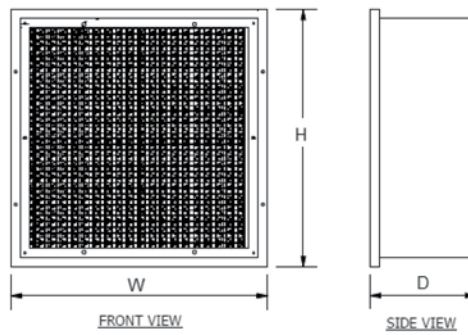
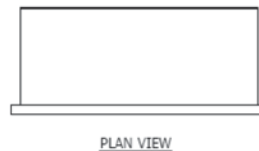
Initial Resistance for MiraCel GT XN



Outer Dimension Diagram



Double Header



Single Header



High Air Flow Type Medium High Efficiency Filter

MiraCel V

- Available in efficiencies M6, F7, F8 and F9
- Designed for high air volume application
- More media areas with low pressure drop
- longer lifespan
- Low energy consumption

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM / CFM	Weight (kg)	Average Efficiency (%)	Pressure Resistance (Pa)	
					Initial	Final
24x12x12	592x287x292	28 / 1000	5	F9 >95% MERV 15	130	500
24x24x12	592x592x292	56 / 2000	8.5			
24x12x12	592x287x292	28 / 1000	5	F8 90-95% MERV 14	110	
24x24x12	592x592x292	56 / 2000	8.5			
24x12x12	592x287x292	28 / 1000	5	F7 80-85% MERV 13	90	
24x24x12	592x592x292	56 / 2000	8.5			
24x12x12	592x287x292	28 / 1000	5	M6 60-65% MERV 11	85	
24x24x12	592x592x292	56 / 2000	8.5			

Measurement method : ASHRAE 52.1 & 52.2 EN779
 Inflammability : UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

Maximum Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation)

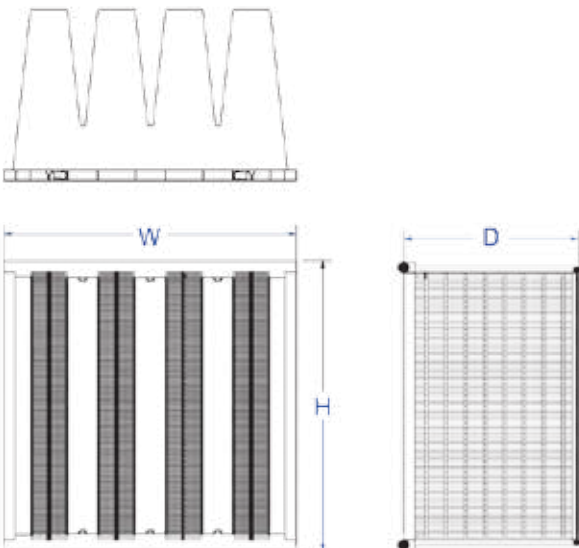
Please discuss for high temperature.

Material

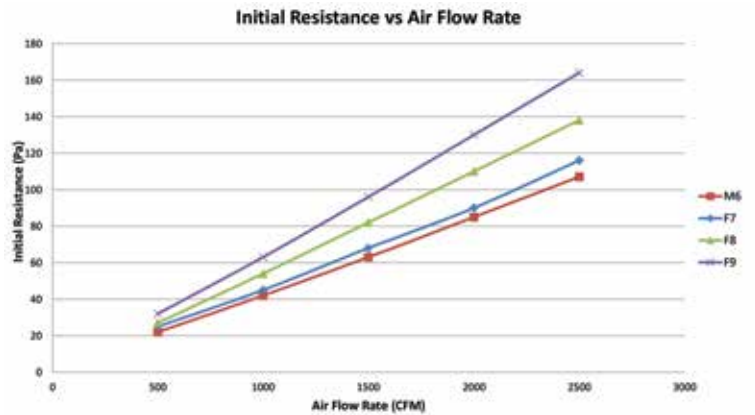
Cellside	ABS
Media	Fiber Glass
Separator	Hot Melt
Sealant	Polyurethane
Header	Neoprene

Standard position for gasket is upstream.

Outer Dimension Diagram (ABS Frame)



Initial Resistance for MiraCel V





High efficiency filter for rotating machinery

MiraCel V GT

- Description**
 MiraCel V GT high efficiency filters are designed to work under extreme operating conditions where severe surging or pulsation occur. Available in high efficiency, high dust holding capacity, low average operating resistance, light weight, easy to install, longer life than standard filters and less filter change out.
- Application**
 MiraCel V GT are heavy duty filters for use in ventilation systems with high efficiency requirements, even under extreme operating conditions such as those found in gas turbines, centrifugal compressors, and similar equipments.

Specification

MiraCel V GT	Normal Size W×H×D (mm)	Actual Size W×H×D (mm)	Initial Resistance (Pa/ in WG)		Media area (M ² /ft ²)	Filter class EN779/ EN1822	Average efficient EN 779	Average arrestance on AC fine test dust(%)
			at 4250 CMH / 2500 CFM	at 3400 CMH / 2000 CFM				
60	24x24x12	592x592x292	90 / 0.36	60 / 0.24	18.2 / 196	F6	60/65%	98
90	24x24x12	592x592x292	100 / 0.4	75 / 0.3	18.2 / 196	F7	80/90%	99
95	24x24x12	592x592x292	120 / 0.48	90 / 0.36	18.2 / 196	F8	90-95%	99.9
98	24x24x12	592x592x292	170 / 0.67	130 / 0.52	18.2 / 196	F9	>95%	99.9
100	24x24x12	592x592x292	225 / 0.9	185 / 0.73	18.2 / 196	E10	>99%	100

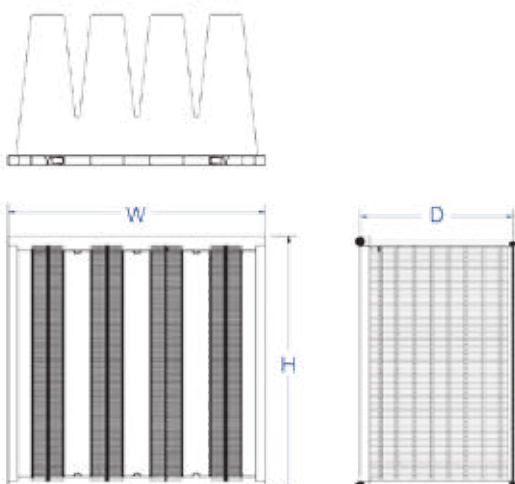
Measurement method : ASHRAE 52.1 & 52.2 EN779
 Inflammability : UL Class 900

Initial Resistance +/-10%

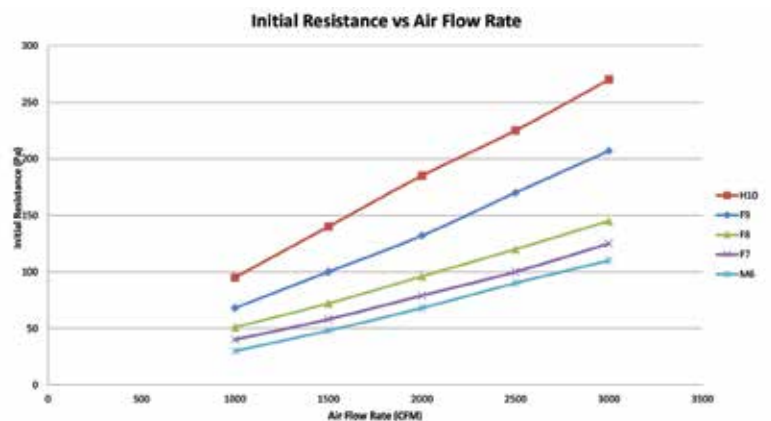
Material And Operating Condition

Cellside	ABS
Header	Single Header
Media	Moisture resistant with graduated density fiber glass media Galvanize & Steel
Faceguard	Epoxy coated or Plastic
Separators	Hotmelt
Gasket	Neoprene and other option
Sealant	Polyurethane
Temperature	Up to 70°C
Recommended final Resistance	635 Pa or 2.5 in WG

Outer Dimension Diagram (ABS Frame)



Initial Resistance for MiraCel V GT





Standard Type ULPA Filter

LunaCel ULPA

- ULPA filter has better performance than HEPA filter
- 99.9995% efficiency and above for 0.12µm particles
- Show effectiveness as super clean room for semiconductors, medical, microorganism lab field

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.12µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×149	3.5/125	3.5	99.9995 (U15)	250	500
12x24x6	305×610×149	7/250	5			
24x24x6	610×610×149	14/500	7.5			
30x24x6	762×610×149	17.5/625	9			
36x24x6	915×610×149	21/750	10.5			
48x24x6	1220×610×149	28/1000	13.5			
12x12x12	305×305×292	7/250	6			
12x24x12	305×610×292	14/500	8.5			
24x24x12	610×610×292	28/1000	13.5			
30x24x12	762×610×292	35/1250	15.5			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation) (However, craft paper: 85%)

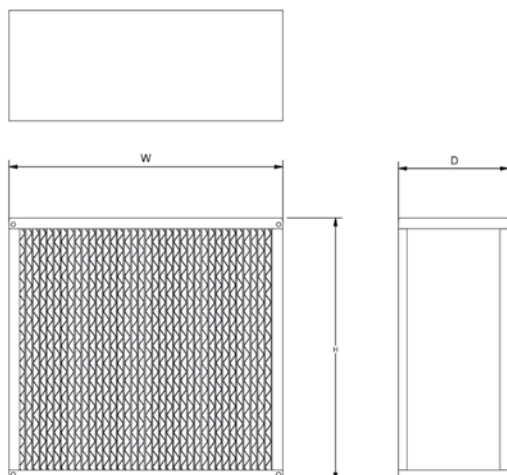
Please discuss for high temperature.

Material

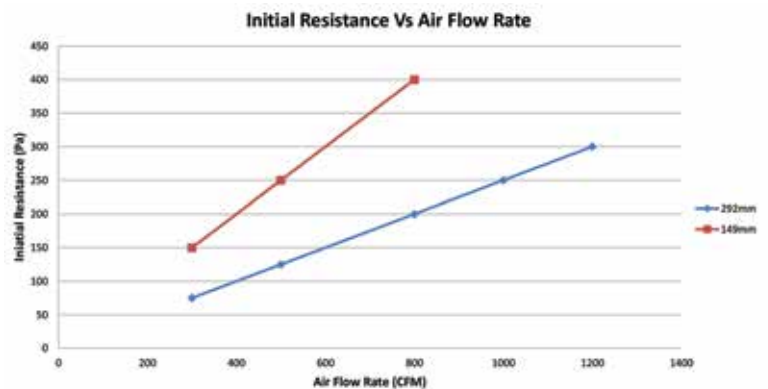
Cellside	Plywood, G.I., Stainless Steel, Galvanize Steel MDF
Media	Fiber Glass
Separator	Aluminium
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

Outer Dimension Diagram



Initial Resistance for LunaCel ULPA





Very High Air Capacity HEPA Filter

LunaCel TS

- Low pressure drop
- Reduces energy cost
- High efficiency for final filtration in air conditioning systems filter housings and diffusers
- Available for efficiency H13, H14, U15 and above

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×149	7 / 250	4	99.99 and above (H13)	230	750
12x24x6	305×610×149	14 / 500	5.5			
24x24x6	610×610×149	28 / 1000	8			
30x24x6	762×610×149	35 / 1250	9.5			
36x24x6	915×610×149	42 / 1500	11			
48x24x6	1220×610×149	56 / 2000	14			
12x12x12	305×305×292	14 / 500	7			
12x24x12	305×610×292	28 / 1000	10.5			
24x24x12	610×610×292	56 / 2000	17			
30x24x12	762×610×292	70 / 2500	20			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation) (however craft paper: 85%RH)

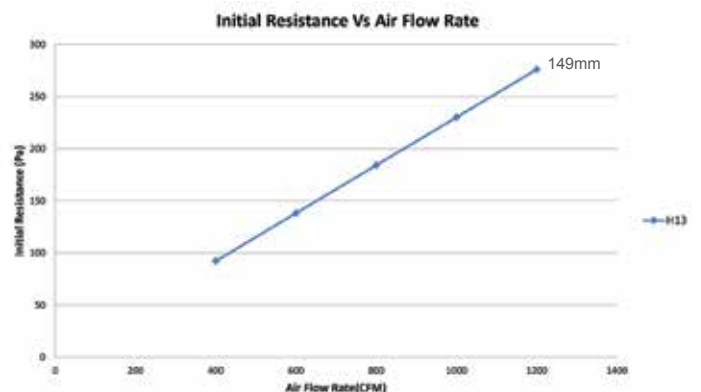
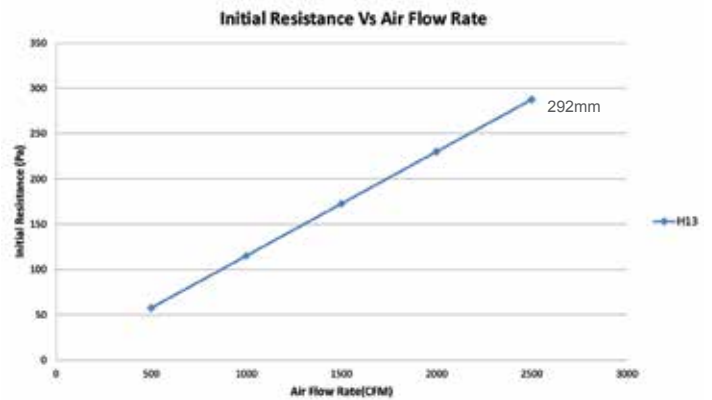
High Temperature filters available upon request

Material

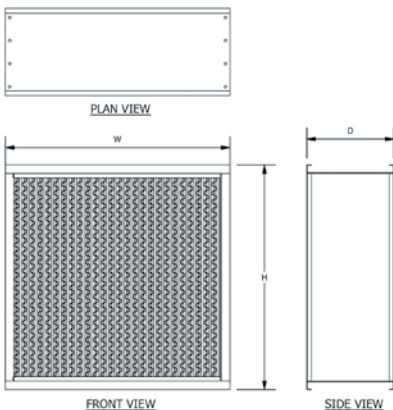
Cellside Wide	Plywood, MDF, Galvanized Steel, Stainless Steel, Aluminium, Gel Seal
Media	Fiber Glass
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

Initial Resistance for LunaCel TS



Outer Dimension Diagram





High Air Capacity HEPA Filter

LunaCel HC

- Ultra-fine fire retardant fibreglass
- Galvanized steel, anodized aluminium, stainless steel, MDF, plywood with various separator construction options.
- Standard depth 292mm & 149mm
- Available for efficiency H13 and H14
- Dry seal and gel seal are available

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×149	7 / 250	3.5	99.99 and above (H13)	350	750
12x24x6	305×610×149	14 / 500	5			
24x24x6	610×610×149	28 / 1000	7.5			
30x24x6	762×610×149	35 / 1250	9			
36x24x6	915×610×149	42 / 1500	10.5			
48x24x6	1220×610×149	56 / 2000	13.5			
12x12x12	305×305×292	14 / 500	6			
12x24x12	305×610×292	28 / 1000	9.5			
24x24x12	610×610×292	56 / 2000	16			
30x24x12	762×610×292	70 / 2500	19			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

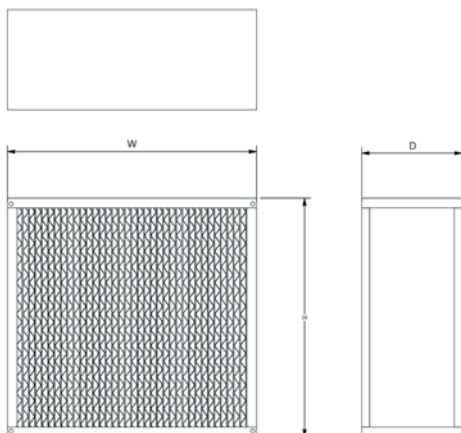
Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation) (however craft paper: 85%RH)

Material

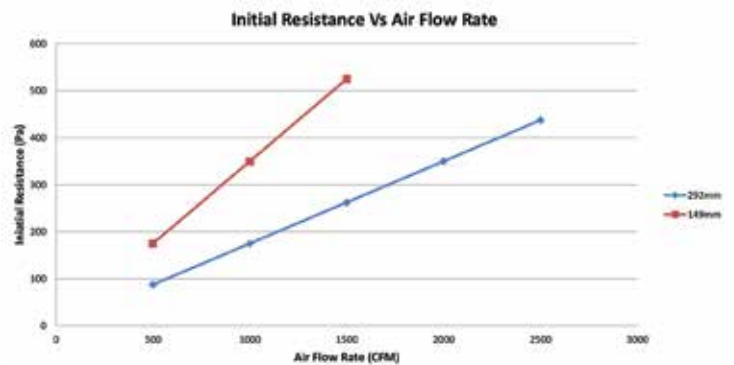
Cellside Wide	Plywood, MDF , Galvanized Steel, Stainless Steel, Aluminium, Gel Seal
Media	Fiber Glass
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

Outer Dimension Diagram



Initial Resistance for LunaCel HC





Standard Type HEPA Filter

LunaCel STD

- Ultra-fine fire retardant fibreglass
- Galvanized steel, anodized aluminium, stainless steel, MDF, Plywood with various separator construction options.
- Standard depth 292mm & 149mm
- Available for efficiency H13 and H14
- Dry seal and gel seal are available

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×149	3.5 / 125	3	99.99 and above (H13)	250	500
12x24x6	305×610×149	7 / 250	4.5			
24x24x6	610×610×149	14 / 500	6.5			
30x24x6	762×610×149	17.5 / 625	8			
36x24x6	915×610×149	21 / 750	9.5			
48x24x6	1220×610×149	28 / 1000	12			
12x12x12	305×305×292	7 / 250	5.5			
12x24x12	305×610×292	14 / 500	8			
24x24x12	610×610×292	28 / 1000	13			
30x24x12	762×610×292	35 / 1250	15			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

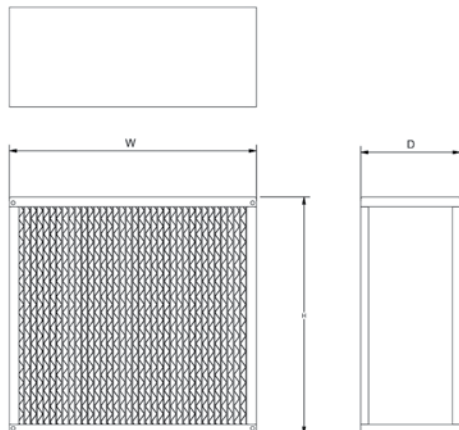
Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation) (however craft paper: 85%RH)

Material

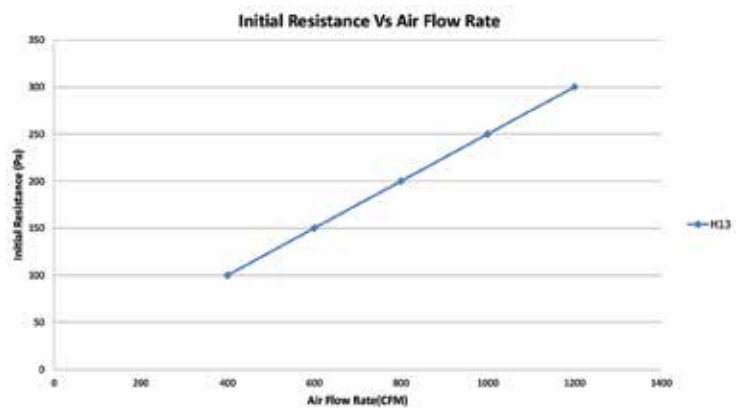
Cellside Wide	Plywood, MDF, Galvanized Steel, Stainless Steel, Aluminium, Gel Seal
Media	Fiber Glass
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

Outer Dimension Diagram



Initial Resistance for LunaCel STD





High Temperature HEPA Filter

LunaCel HT

- High temperature filter up to 250°C
- Ultra-fine fire retardant fibreglass
- Galvanized steel and stainless steel
- Standard depth 292mm & 149mm
- Available for efficiency H13 and H14

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×149	7 / 250	3.5	99.99 and above (H13)	350	750
12x24x6	305×610×149	14 / 500	5			
24x24x6	610×610×149	28 / 1000	7.5			
30x24x6	762×610×149	35 / 1250	9			
36x24x6	915×610×149	42 / 1500	10.5			
48x24x6	1220×610×149	56 / 2000	13.5			
12x12x12	305×305×292	14 / 500	6			
12x24x12	305×610×292	28 / 1000	9.5			
24x24x12	610×610×292	56 / 2000	16			
30x24x12	762×610×292	70 / 2500	19			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

Operating Temperature	up to 250°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation) (however, craft paper: 85%RH)

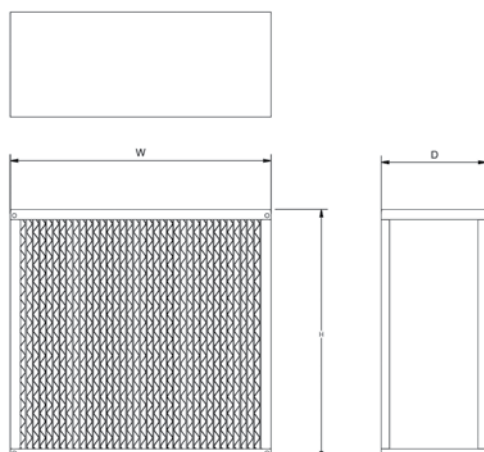
Please discuss for high temperature.

Material

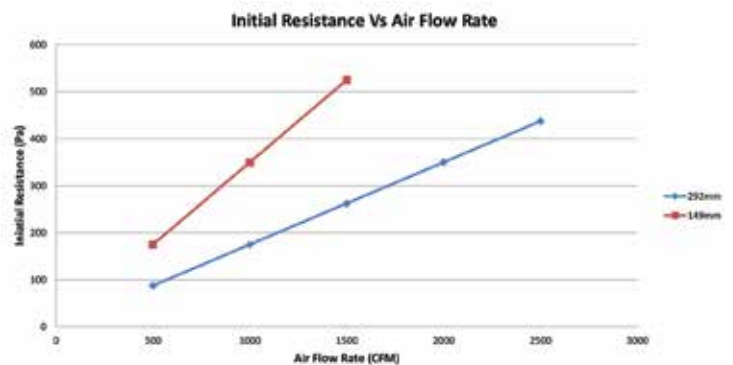
Cellside	Stainless Steel, Galvanized Steel
Media	Fiber Glass
Separator	Aluminium
Sealant	Red Silicone
Gasket	Red Silicone

Standard position for gasket is upstream.

Outer Dimension Diagram



Initial Resistance for LunaCel HT





Standard Type EPA Filter

LunaCel E10

- 95% efficiency and above for 0.3µm particles
- Resistance is largely lower compared to HEPA filter yet having better efficiency than middle-high efficiency filter, which can contribute lower running cost

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x24x6	305×610×149	14 / 500	4.5	95% (E10)	237	500
24x24x6	610×610×149	28 / 1000	6.5			
12x24x12	305×610×292	28 / 1000	8			
24x24x12	610×610×292	56 / 2000	13			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

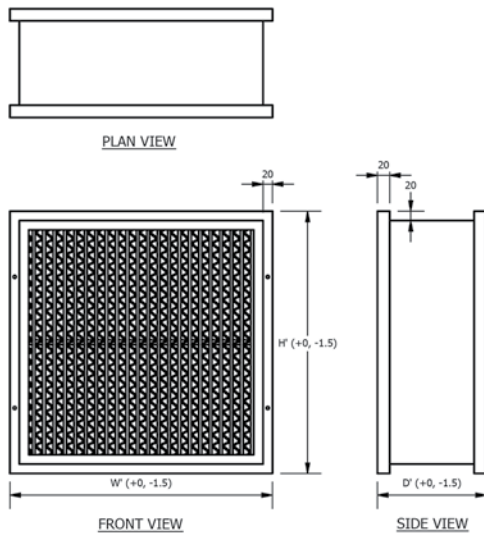
Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation) (craft paper: 85%RH)

Please discuss for high temperature.

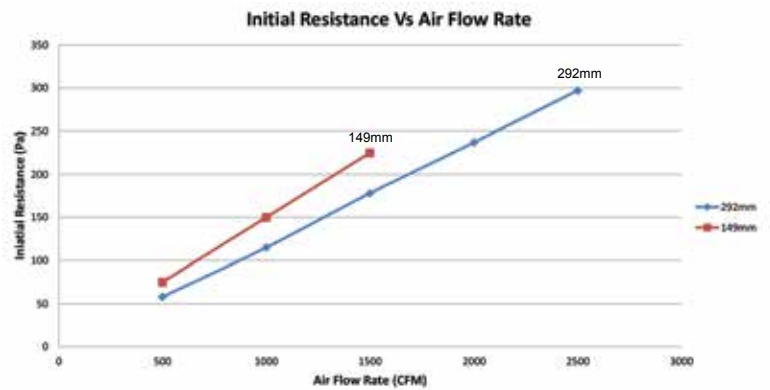
Material

Cellside	Plywood, Galvanized Steel, Stainless Steel, Aluminium, MDF
Media	Fiber Glass
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	Neoprene

Outer Dimension Diagram



Initial Resistance for LunaCel E10





High Air Flow Type EPA Filter

LunaCel TS E10

- 95% efficiency and above for 0.3µm particles
- Low pressure drop
- Reduces energy cost
- High efficiency for final filtration in air conditioning systems, filter housings and Diffusers

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×149	7 / 250	3.5	95% and above (E10)	157	500
12x24x6	305×610×149	14 / 500	5			
24x24x6	610×610×149	28 / 1000	7.5			
30x24x6	762×610×149	35 / 1250	9			
36x24x6	915×610×149	42 / 1500	10.5			
48x24x6	1220×610×149	56 / 2000	13.5			
12x12x12	305×305×292	14 / 500	6			
12x24x12	305×610×292	28 / 1000	9.5			
24x24x12	610×610×292	56 / 2000	16			
30x24x12	762×610×292	70 / 2500	19			

Measuring method: IES-RP-1 & EN1822
 Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation) (however craft paper: 85%RH)

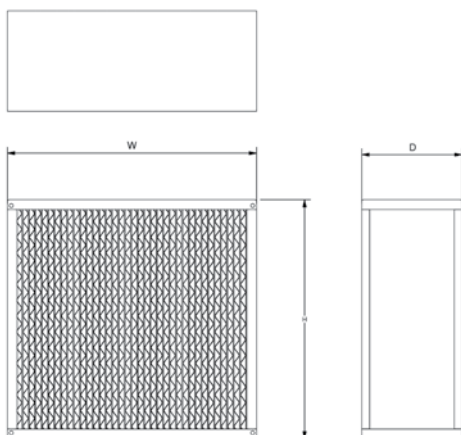
Please discuss for high temperature.

Material

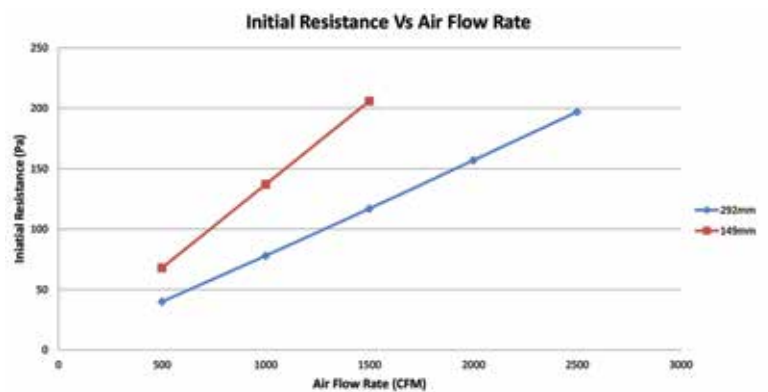
Cellside	Plywood, Galvanized Steel, Stainless Steel, Aluminium, MDF
Media	Fiber Glass
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	Neoprene

Standard position for gasket is upstream.

Outer Dimension Diagram



Initial Resistance for LunaCel TS H10



Standard Type HEPA Filter



LunaKleen

- Slim, light and compact type HEPA and ULPA filters
- Mini-pleat design
- Wide range of efficiency H13 to U17
- Low off-gassing filter material to meet the cleanroom requirement
- 100% HEPA filter scan test for guaranteed performance
- Optional for gel seal

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm/0.12µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x3	305×305×69	2.5 / 88	2	99.9995 (U15)	125	500
12x24x3	305×610×69	5.0 / 177	3			
24x24x3	610×610×69	10.0 / 355	5			
30x24x3	762×610×69	12.6 / 443	6			
36x24x3	915×610×69	15.0 / 532	7			
48x24x3	1220×610×69	20.0 / 709	9	99.999 (H14)	110	
12x12x3	305×305×69	2.5 / 88	2			
12x24x3	305×610×69	5.0 / 177	3			
24x24x3	610×610×69	10.0 / 355	5			
30x24x3	762×610×69	12.6 / 443	6			
36x24x3	915×610×69	15.0 / 532	7	99.99 (H13)	105	
48x24x3	1220×610×69	20.0 / 709	9			
12x12x3	305×305×69	2.5 / 88	2			
12x24x3	305×610×69	5.0 / 177	3			
24x24x3	610×610×69	10.0 / 355	5			
30x24x3	762×610×69	12.6 / 443	6			
36x24x3	915×610×69	15.0 / 532	7			
48x24x3	1220×610×69	20.0 / 709	9			

Measuring method: IES-RP-1 & EN1822

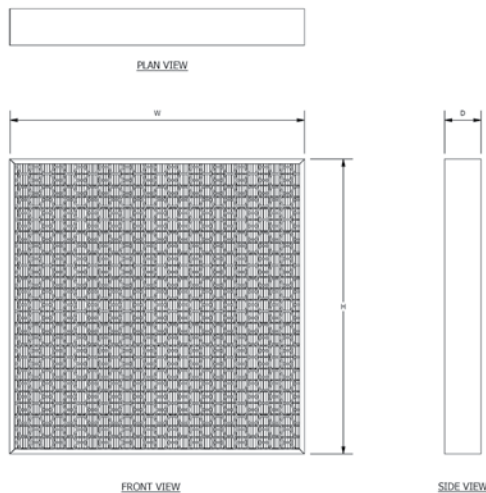
Inflammability: UL Class 900/FM Approval Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH Humidity (no dew condensation)

Outer Dimension Diagram

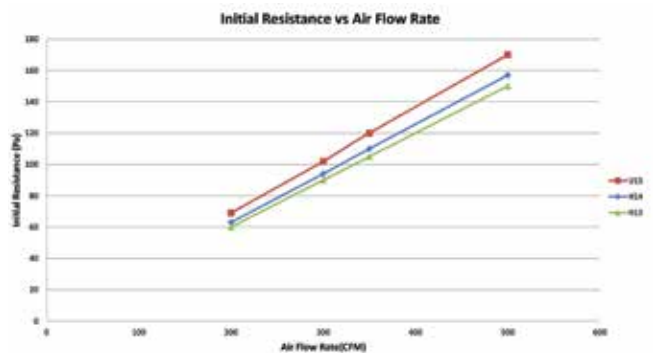


Material

Cellside	Anodized Aluminium
Media	Fiber Glass
Separator	Hot Melt
Faceguard	Anodized Aluminium, E.G Powder Baked
Sealant	Polyurethane
Gasket	EPDM, Neoprene, Gel Seal, Knife-edge, Jointless PU Gasket

Bothsides Come With Faceguard
Standard position for gasket is both up & downstream.

Initial Resistance for LunaKleen





PTFE Type HEPA / ULPA Filter

TetraKleen

- Ultra-high efficiency PTFE membrane
- Available for high efficiency H13, H14, U15, U16 and U17
- Ultra-low resistance to achieve optimum energy efficiency
- Negligible off-gassing properties (eg. boron, sodium, potassium, silicon)
- High durability media, minimize transportation cost, rough handling and installation damages
- High acid resistance to corrosive environment (acids, alkali, organic substances)

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow (CMM / CFM)	Weight (kg)	Efficiency (% @ 0.3µm/0.12µm)	Pressure Resistance (Pa)	
					Initial	Final
48x24x3	1220×610×69	20/709	9	99.9995 (U15)	85	500
48x24x3	1220×610×69	20/709	9	99.999 (H14)	55	
48x24x3	1220×610×69	20/709	9	99.99 (H13)	40	

Measurement method: IEST-RP-CC034.3 & EN1822
 Inflammability: UL Class 900
 Other size are available upon request

Initial Resistance +/-10%

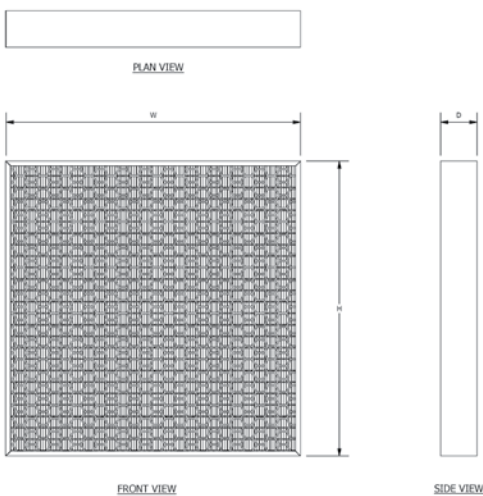
Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH Humidity

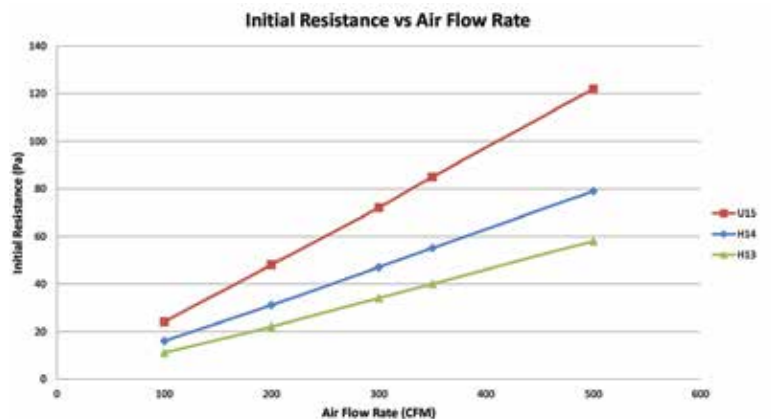
Material

Media	PolyTetra FluoroEthylene
Separator	Hotmelt Adhesive
Cellside	Anodized Aluminium
Faceguard	E.G Powder Baked
Nominal Depth	50mm, 69mm, 93mm, 117mm
Gasket	EPDM

Outer Dimension Diagram



Initial Resistance for TetraKleen





High Air Capacity Mini-Pleat HEPA Filter

LunaCel V

- Designed for high air volume application
- More media areas with low pressure drop
- Longer lifespan
- Low energy consumption
- ABS Frame
- Available from H10 to H14

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
24x12x12	592x287x292	28 / 1000	5	99.99 (H13)	280	600
24x24x12	592x592x292	56 / 2000	8.5			
24x12x12	592x287x292	28 / 1000	5	99.95 (H12)	265	
24x24x12	592x592x292	56 / 2000	8.5			
24x12x12	592x287x292	28 / 1000	5	98 (E11)	200	
24x24x12	592x592x292	56 / 2000	8.5			
24x12x12	592x287x292	28 / 1000	5	95 (E10)	190	
24x24x12	592x592x292	56 / 2000	8.5			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

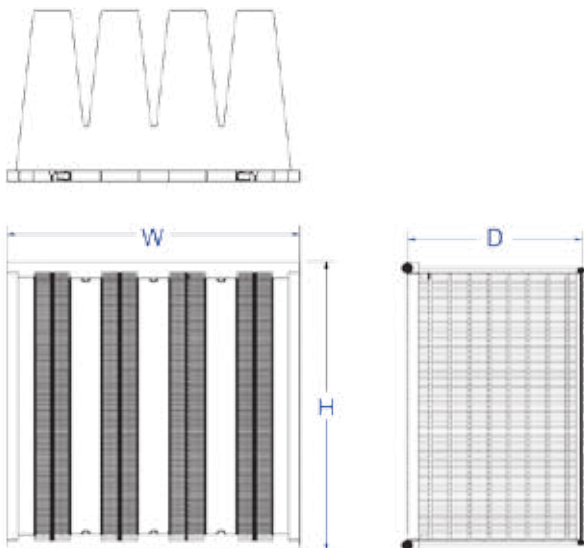
Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation)

Material

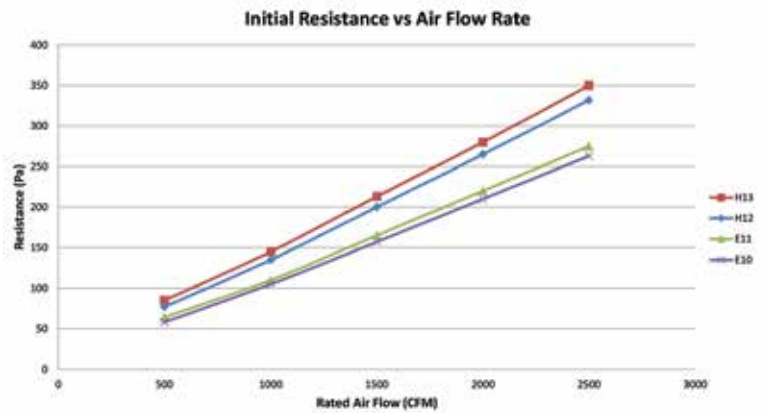
Cellside	ABS
Media	Fiber Glass
Separator	Hot Melt
Sealant	Polyurethane
Gasket	Neoprene, EPDM

Gasket is optional.

Outer Dimension Diagram



Initial Resistance for LunaCel V





High Air Capacity Mini-Pleat HEPA Filter

LunaCel VBX

- Design for high air volume applications
- The enlarged media area ensures lower average pressure drop and longer lifespan filter
- Low energy consumption
- Available for H13 – H14
- V-Bank panels in a single filter enclose allow up to 2500 CFM with minimal airflow resistance of 250Pa

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x24x12	305×610×292	25 / 1145	9.5	99.999 (H14)	280	750
24x24x12	610×610×292	66 / 2500	16			
12x24x12	305×610×292	25 / 1145	9.5	99.99 (H13)	250	
24x24x12	610×610×292	66 / 2500	16			

Measuring method: IES-RP-1 & EN1822
 Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

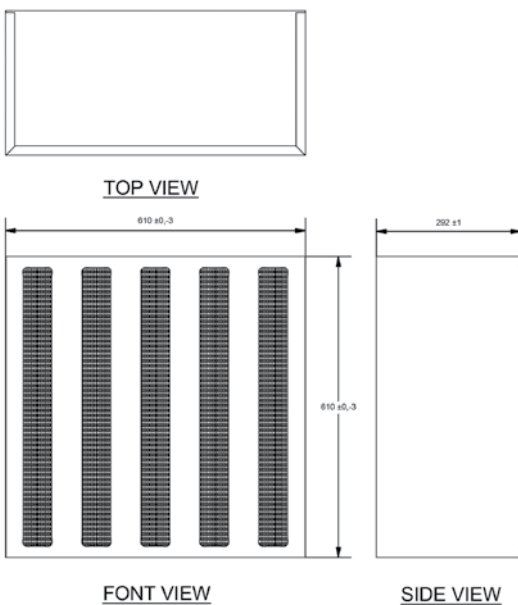
Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation)

Material

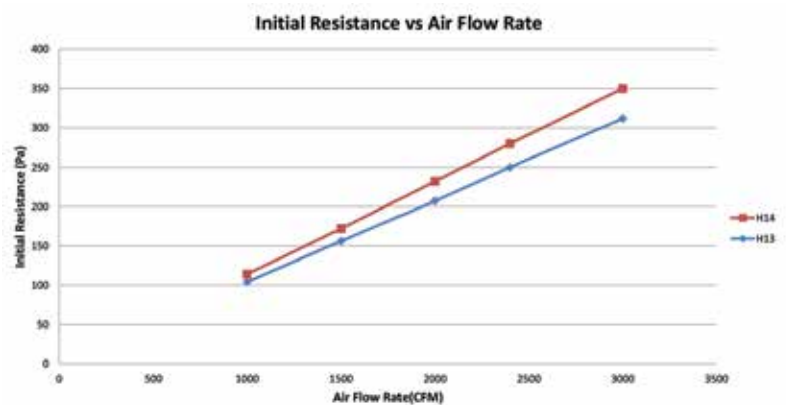
Cellside	Galvanized Steel, Stainless Steel
Media	Fiber Glass
Separator	Hot Melt
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Gasket is optional.

Outer Dimension Diagram



Initial Resistance for LunaCel VBX





High Air Capacity Mini-Pleat HEPA Filter

LunaCel VL

- Design for high air volume applications
- The enlarged media area ensures lower average pressure drop and longer lifespan filter
- Low energy consumption
- Available for H13 – H14
- V-Bank panels in a single filter enclose allow up to 2500 CFM with minimal airflow resistance of 1.0" w.g

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
24x12x12	592x287x292	32/1145	9.5	99.99 and above (H13)	250	750
24x24x12	592x592x292	70/2500	16			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900 Other sizes are available upon request

Initial Resistance +/-10%

Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH (no dew condensation)

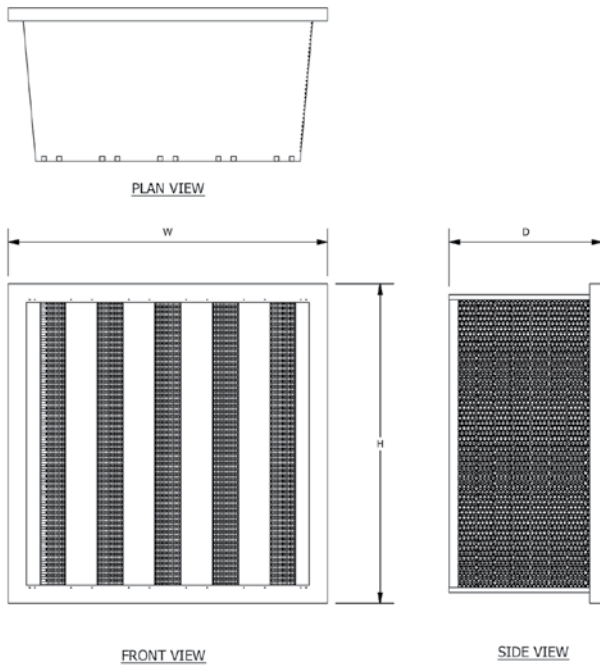
Please discuss for high temperature.

Material

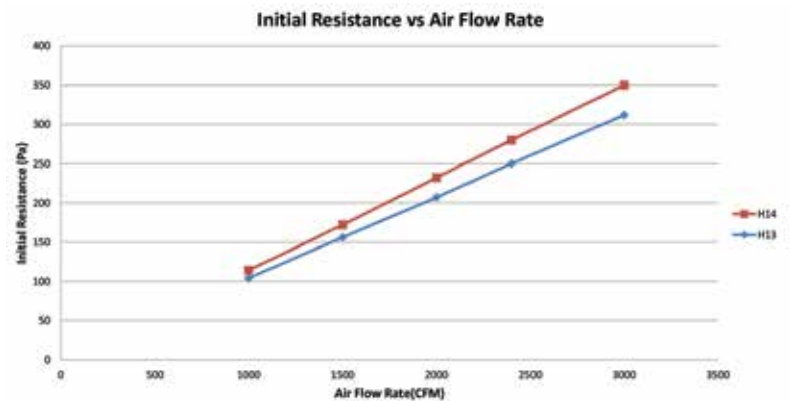
Cellside	Galvanized Steel, Stainless Steel
Media	Fiber Glass
Separator	Hot Melt
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Gasket is optional.

Outer Dimension Diagram



Initial Resistance for LunaCel VL



Permanent Type Ceiling Module

LunaKleen Hood



- Compact HEPA & ULPA grade filters with hood cover
- Mini-pleat design
- Wide range of efficiency from H13 to U15
- Low off-gassing filter material to meet the cleanroom requirement
- 100% HEPA filter scan test for guaranteed performance
- Room side adjustable diffuser
- Optional for test port

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Weight (kg)	Efficiency (% @ 0.3µm/0.12µm)	Pressure Resistance (Pa)	
					Initial	Recommended Final
24x24x6	600x600x152	10.0 / 355	5	99.9995 (U15)	125	500
36x24x6	900x600x152	15.0 / 532	8			
48x24x6	1210x600x152	20.0 / 709	12			
24x24x6	600x600x152	10.0 / 355	5	99.999 (H14)	110	
36x24x6	900x600x152	15.0 / 532	8			
48x24x6	1210x600x152	20.0 / 709	12			
24x24x6	600x600x152	10.0 / 355	5	99.99 (H13)	105	
36x24x6	900x600x152	15.0 / 532	8			
48x24x6	1210x600x152	20.0 / 709	12			

Measuring method: IES-RP-1 & EN1822

Inflammability: UL Class 900/FM Approval Other sizes are available upon request

Initial Resistance +/-10%

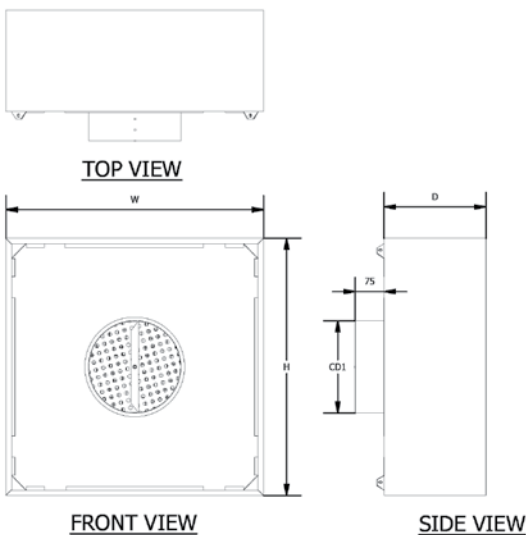
Operating Condition

Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH Humidity (no dew condensation) (However, craft paper: 85%)

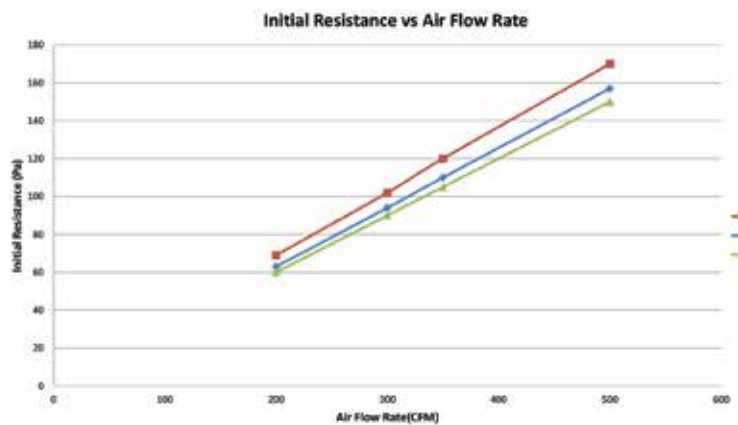
Material

Cellside	Anodized Aluminium
Media	Water Proof Non-Combustible Fiber Glass
Separator	Hot Melt
Faceguard	Anodized Aluminium, E.G. Powder Baked
Sealant	Polyurethane
Gasket	Neoprene, EPDM
Collar	8", 10", 12"

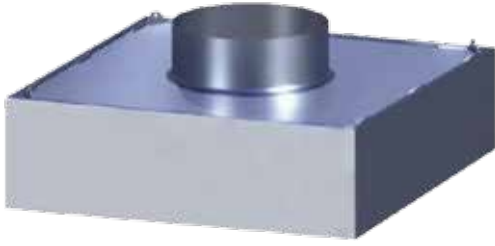
Outer Dimension Diagram (Aluminium Frame)



Initial Resistance for LunaKleen Hood



RSC Housing Ceiling Module Gel



LunaKleen Ghood

- Wide range of efficiency H13 ~ U15
- 100% filter leak test for guaranteed performance
- Final filter for pharma and microelectronics, cleanroom and equipment
- Room side replaceable filter

Specification

Nominal Size W×H×D (in)	Actual Size W×H×D (mm)	Air Flow CMM/CFM	Efficiency (% @ 0.3µm/0.12µm)	Pressure Resistance (Pa)	
				Initial	Recommended Final
600x600x152	570x570x81	10/355	99.9995 (U15)	125	500
600x905x152	570x875x81	15/532			
600x1210x152	570x1180x81	20/709			
600x600x152	570x570x81	10/355	99.999 (H14)	110	
600x905x152	570x875x81	15/532			
600x1210x152	570x1180x81	20/709			
600x600x152	570x570x81	10/355	99.99 (H13)	105	
600x905x152	570x875x81	15/532			
600x1210x152	570x1180x81	20/709			

Measuring method : IES-RP-1 & EN 1822 Inflammability: UL Class 900
 Other size are available upon request
 Final Resistance is based on Energy Efficiency
 Add 15 Pa to Initial Resistance for Module Construction

Initial Resistance +/-10%

Operating Condition

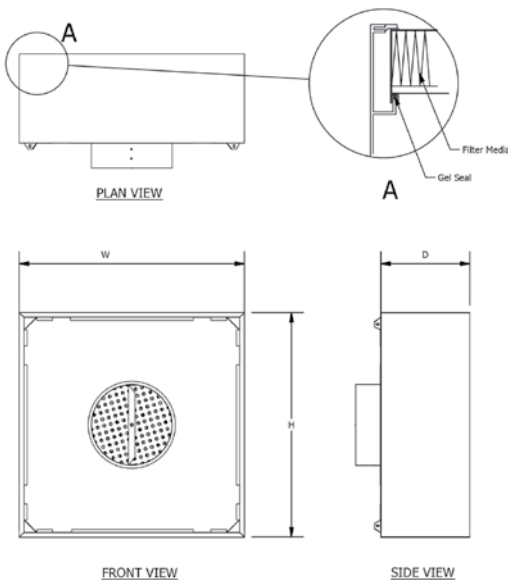
Operating Temperature	70°C
Usage Humidity Limit (Continuous)	95%RH Humidity (no dew condensation)

Material

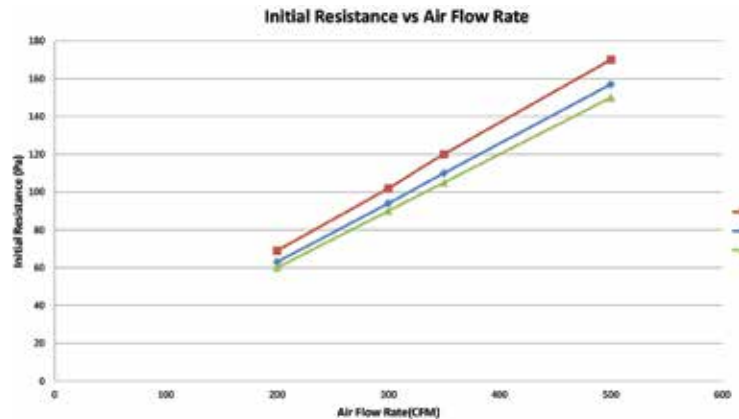
Casing	Anodized Aluminium
Collar	8", 10", 12"
Filter	LunaKleen
Gasket	Gel Seal

Down stream side attached with face guard.

Outer Dimension Diagram (Aluminium Frame)



Initial Resistance for LunaKleen Ghood





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