



HIGH EFFICIENCY
AIR FILTER SERIES



ULPA/HEPA FILTER SERIES

TERRACEL

TERRAKLEEN

LUNACEL

LUNACEL HC

LUNACEL WIDE

LUNAKLEEN

LUNAKLEEN CF

LUNAVEE

LUNAVEE WIDE

LUNAHOOD

CLEAN FLOW

CLEAN FLOW RSC

CLEAN FLOW F

ZANNACEL

ZANNACEL WIDE

ZANNAVEE WIDE

SAFE CHANGE HOUSING

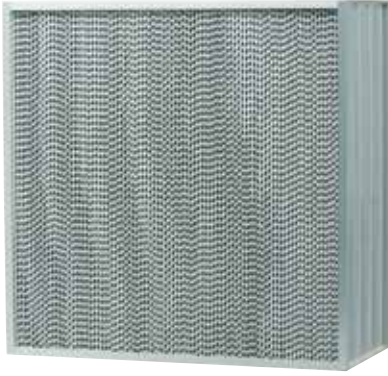
ULPA/HEPA FILTER SERIES

Summary

ULPA/HEPA filters filter out extra-fine particles in the air stream. They are widely utilized when high purity of air is needed. Generally, these filters are used in clean room ranges from many industries such as semiconductor, food, pharmaceutical, surgery room at hospital, research laboratory, bio-hazardous facilities, etc. Due to recent high demands and awareness of the great importance of cleanliness or high purity air, there are more ULPA/HEPA filter models, line-up with improved performance.

Product Category

Performance	Construction	Features	Product Name	Product Introduction	Page
ULPA	Separator		TerraCel	<ul style="list-style-type: none"> • ULPA filter is higher performance than HEPA filter • 99.9995% and above @ 0.15µm • Display the effectiveness of super clean room for semiconductor, food, hospital/medical room, microorganism research lab 	4
	Mini Pleats		TerraKleen	<ul style="list-style-type: none"> • Thin, light and compact type of ULPA filter • ULPA filter is higher performance than HEPA filter • 99.9995% and above @ 0.15µm • Display the effectiveness of super clean room for semiconductor, food, hospital/medical room, microorganism research lab • Space saving 	5
HEPA	Separator		LunaCel		6
		High Air Capacity	LunaCel HC	<ul style="list-style-type: none"> • Used in clean air and other advance clean room • 99.99% and above @ 0.3µm 	7
		Very High Air Capacity	LunaCel Wide		8
	Mini Pleats		LunaKleen		9
			LunaKleen CF	<ul style="list-style-type: none"> • Used in clean air and other advance clean room • 99.99% and above @ 0.3µm • Space saving 	10
	V-Bank		LunaVee		11
			LunaVee Wide		12
	Ceiling Module	Disposable	LunaHood	<ul style="list-style-type: none"> • Space saving 	13
		Permanent Housing	Clean Flow		14
			Clean Flow RSC	<ul style="list-style-type: none"> • Room Side Changeable HEPA filter 	15
Fan Filter Unit		Clean Flow F	<ul style="list-style-type: none"> • Fan Filter Unit (FFU) 	16	
EPA	Separator		ZannaCel		17
		High Air Capacity	ZannaCel Wide	<ul style="list-style-type: none"> • 95% and above @ 0.3µm • Pressure resistance is far more lower than HEPA filter. Has better performance than middle high performance filter • Running cost reduction 	18
	V-Bank		ZannaVee Wide		19
RPT	Equipment	Duct Housing	Safe Change Housing	<ul style="list-style-type: none"> • Reliable duct housing • Air purification in hazardous environment safely 	20



Standard Type ULPA Filter

TerraCel

- 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

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m ³ /min)	Weight (kg)	Efficiency (% @ 0.15µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305x305x150	3.5	3.5	99.9995 and above (U15)	249	498
12x24x6	305x610x150	7.0	5.0			
24x24x6	610x610x150	14.0	7.5			
30x24x6	762x610x150	17.5	9.0			
36x24x6	915x610x150	21.0	10.5			
48x24x6	1220x610x150	28.0	13.5			
12x12x12	305x305x292	7.0	6.0			
12x24x12	305x610x292	14.0	8.5			
24x24x12	610x610x292	28.0	13.5			
30x24x12	762x610x292	35.0	15.5			

Measuring method : JIS B 9927 (JIS B 9908 Format 1) IES-RP-CCO34-1 & EN 1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH Humidity (no dew condensation)

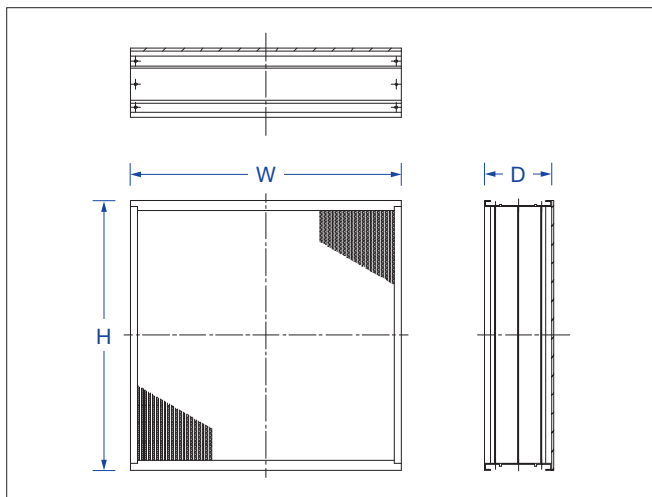
Please discuss for high temperature.

• Material

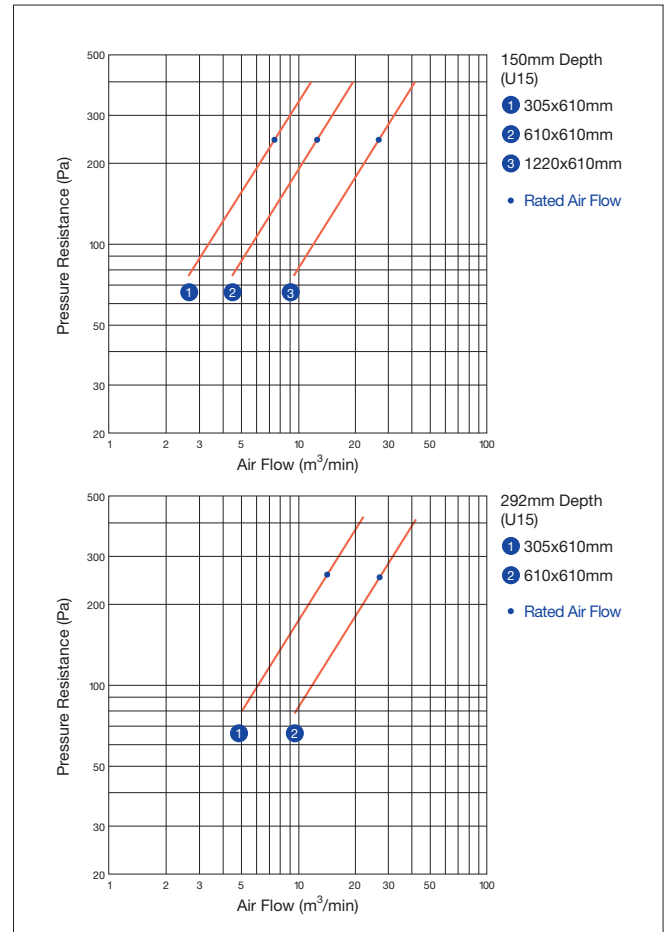
Cellside	Anodized Aluminium, Stainless Steel, G.I., MDF
Media	Glass Fiber
Separator	Aluminium
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.



Standard Type ULPA Filter

TerraKleen

- Thin, light, compact type, ULPA filter
- ULPA filter has better performance than HEPA filter
- 99.9995% efficiency and above for 0.12µm particles
- Show effectiveness for semiconductors, food, medical and microorganism research lab as super cleanroom

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.15µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x3	305×305×69	2.0	2	99.9995 (U16)	140	400
12x24x3	305×610×69	4.5	3			
24x24x3	610×610×69	10.0	5			
30x24x3	762×610×69	12.5	6			
36x24x3	915×610×69	15.0	7			
48x24x3	1220×610×69	20.5	9			
12x12x3	305×305×69	2.0	2	99.9995 (U15)	120	400
12x24x3	305×610×69	4.5	3			
24x24x3	610×610×69	10.0	5			
30x24x3	762×610×69	12.5	6			
36x24x3	915×610×69	15.0	7			
48x24x3	1220×610×69	20.5	9			

Measuring method : JIS B 9927 (JIS B 9908 Format 1) IES-RP-CC034-1 & EN 1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

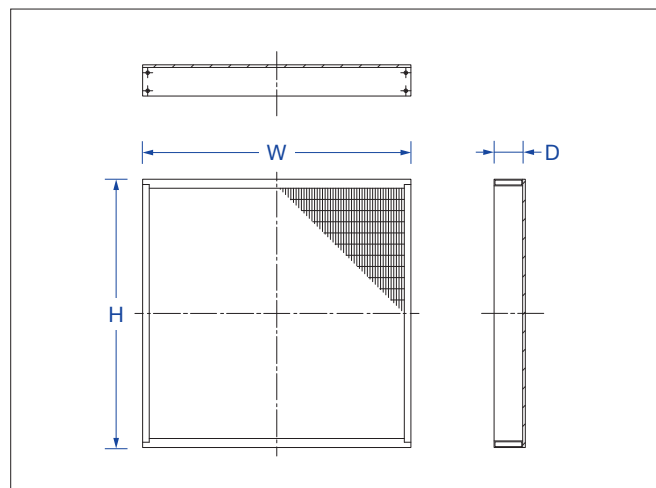
Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH Humidity (no dew condensation)

• Material

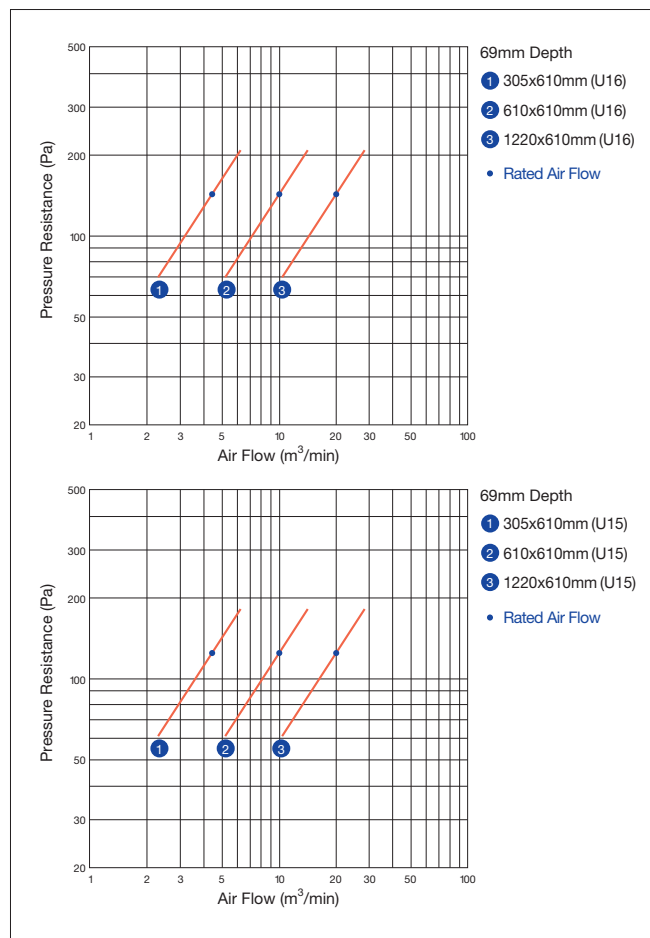
Cellside	Anodized Aluminium
Media	Glass Fiber
Separator	Hot Melt
Sealant	Polyurethane
Gasket	EPDM, Neoprene, Gel
Faceguard	Anodized Aluminium, EG Powder Baked

Standard position for gasket is both up & downstreams.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.

Standard Type HEPA Filter

LunaCel



LunaCel

- HEPA filter for clean air and other advanced cleanroom
- 99.99% efficiency and above for 0.3µm particles

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×150	3.5	3.0	99.99 and above (H13)	249	499
12x24x6	305×610×150	7.0	4.5			
24x24x6	610×610×150	14.0	6.5			
30x24x6	762×610×150	17.5	8.0			
36x24x6	915×610×150	21.0	9.5			
48x24x6	1220×610×150	28.0	12.0			
12x12x12	305×305×292	7.0	5.5			
12x24x12	305×610×292	14.0	8.0			
24x24x12	610×610×292	28.0	13.0			
30x24x12	762×610×292	35.0	15.0			

Measuring method : JIS B 9908 Format 1, IES-RP-1 & EN 1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	90°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation) (however, craft paper: 85%RH)

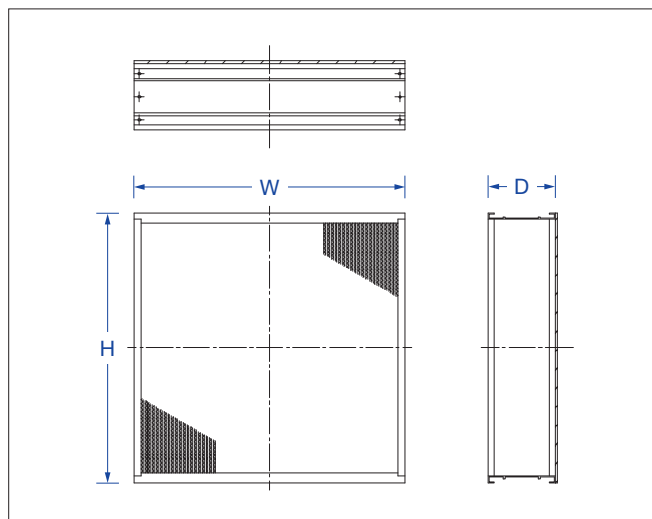
Please discuss for high temperature.

• Material

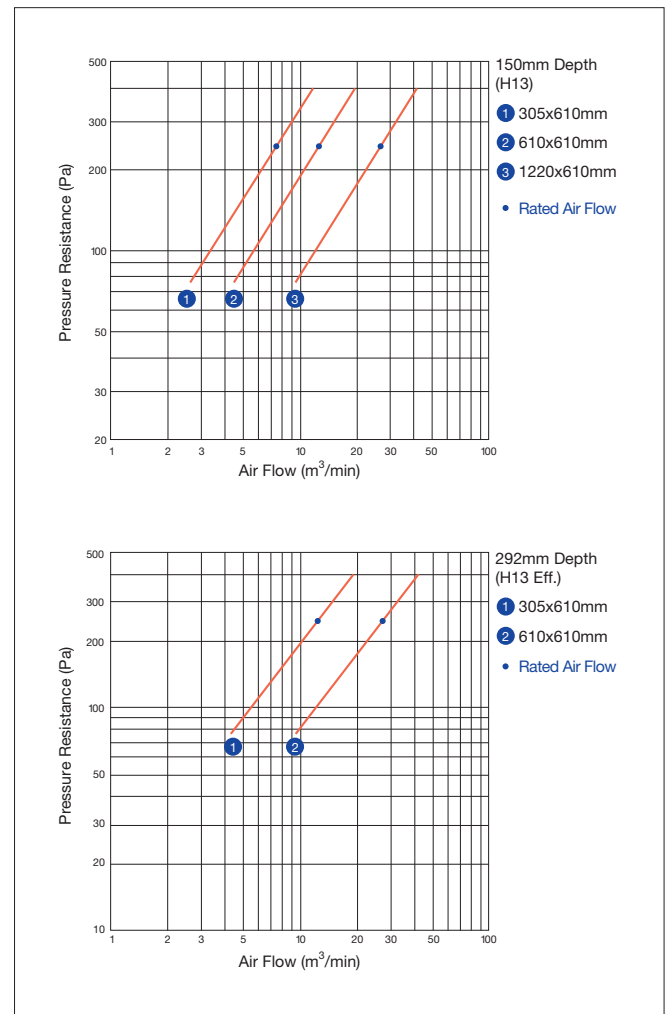
Cellside	Plywood, MDF, G.I, Stainless Steel, Aluminium
Media	Glass Fiber
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.

High Air Capacity HEPA Filter



LunaCel HC

- Higher air capacity than standard HEPA filter
- Smaller space requirement than standard HEPA filter of the same air capacity
- 99.99% efficiency and above 0.3µm particles

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m ³ /min)	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305x305x150	7.0	3.5	99.99 and above (H13)	350	700
12x24x6	305x610x150	14.0	5.0			
24x24x6	610x610x150	28.0	7.5			
30x24x6	762x610x150	35.0	9.0			
36x24x6	915x610x150	42.0	10.5			
48x24x6	1220x610x150	56.0	13.5			
12x12x12	305x305x292	14.0	6.0			
12x24x12	305x610x292	28.0	9.5			
24x24x12	610x610x292	56.0	16.0			
30x24x12	762x610x292	70.0	19.0			

Measuring method : JIS B 9908 Format 1, IES-RP-1 & EN 1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	90°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation) (however, craft paper: 85%RH)

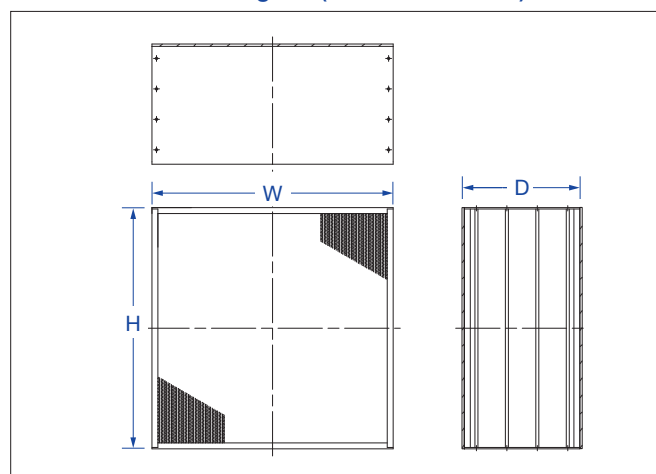
Please discuss for high temperature.

• Material

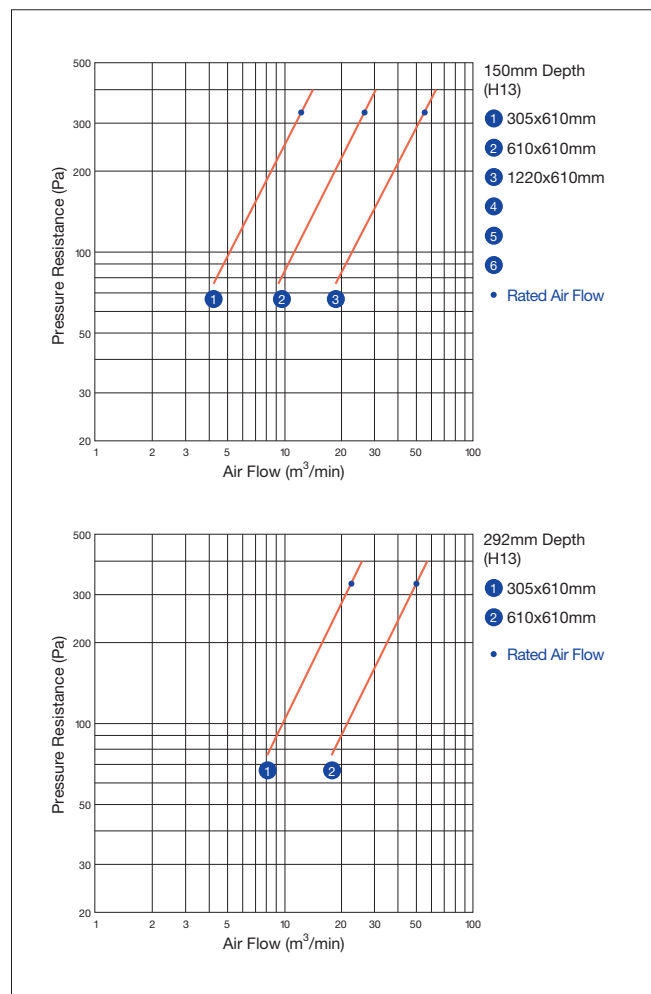
Cellside	Plywood, MDF, G.I., Stainless Steel, Aluminium
Media	Glass Fiber
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.

Very High Air Capacity HEPA Filter

LunaCel Wide



- Higher air capacity than high capacity HEPA filter
- Smaller space requirement than high capacity HEPA filter of the same air capacity
- 99.99% efficiency and above 0.3µm particles

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×150	7.0	4.0	99.99 and above (H13)	249	700
12x24x6	305×610×150	14.0	5.5			
24x24x6	610×610×150	28.0	8.0			
30x24x6	762×610×150	35.0	9.5			
36x24x6	915×610×150	42.0	11.0			
48x24x6	1220×610×150	56.0	14.0			
12x12x12	305×305×292	14.0	7.0			
12x24x12	305×610×292	28.0	10.5			
24x24x12	610×610×292	56.0	17.0			
30x24x12	762×610×292	70.0	20.0			

Measuring method : JIS B 9908 Format 1, IES-RP-1 & EN 1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	90°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation) (however, craft paper: 85%RH)

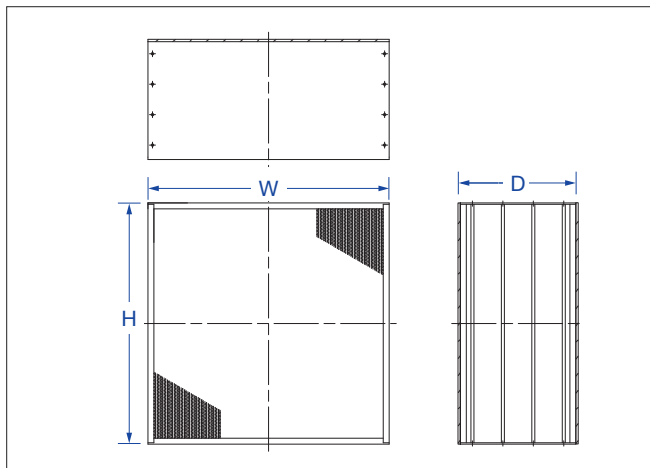
Please discuss for high temperature.

• Material

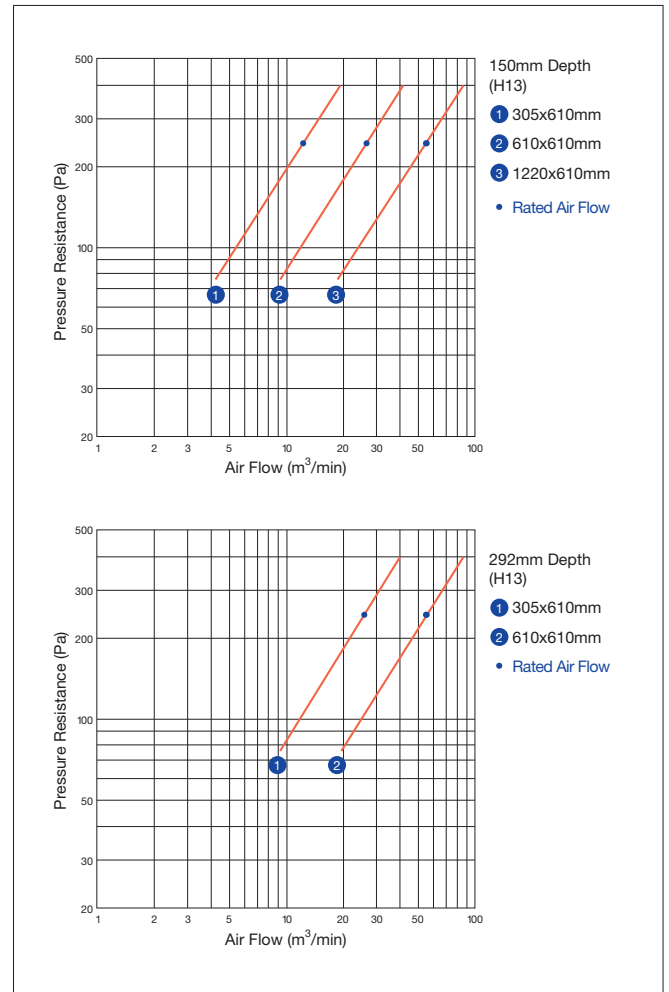
Cellside Wide	Plywood, MDF, G.I., Stainless Steel, Aluminium
Media	Glass Fiber
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.



Standard Type HEPA Filter

LunaKleen

- Used in clean air and other advance clean room
- 99.99% efficiency and above for 0.3μm particles
- Space saving

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m ³ /min)	Weight (kg)	Efficiency (% @ 0.3μm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x3	305×305×69	2.0	2	99.999 (H14)	110	250
12x24x3	305×610×69	4.5	3			
24x24x3	610×610×69	10.0	5			
30x24x3	762×610×69	12.5	6			
36x24x3	915×610×69	15.0	7			
48x24x3	1220×610×69	20.5	9			
12x12x3	305×305×69	2.0	2	99.99 (H13)	105	
12x24x3	305×610×69	4.5	3			
24x24x3	610×610×69	10.0	5			
30x24x3	762×610×69	12.5	6			
36x24x3	915×610×69	15.0	7			
48x24x3	1220×610×69	20.5	9			

Measuring method : JIS B 9908 Format 1 (calculation method). IES-RP-1 & EN1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

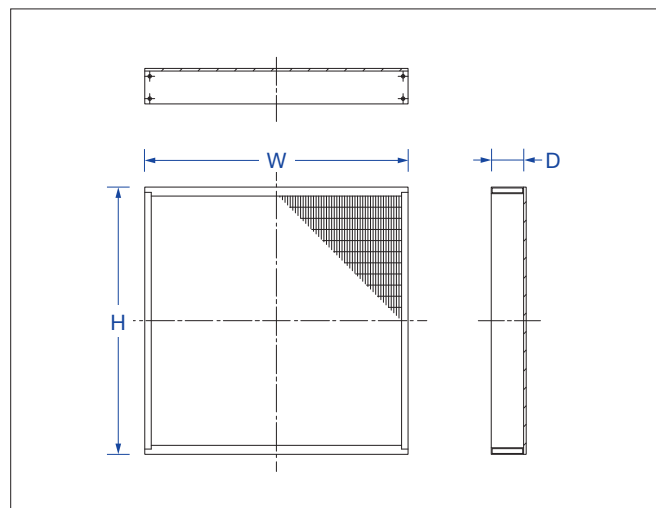
Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH Humidity (no dew condensation)

• Material

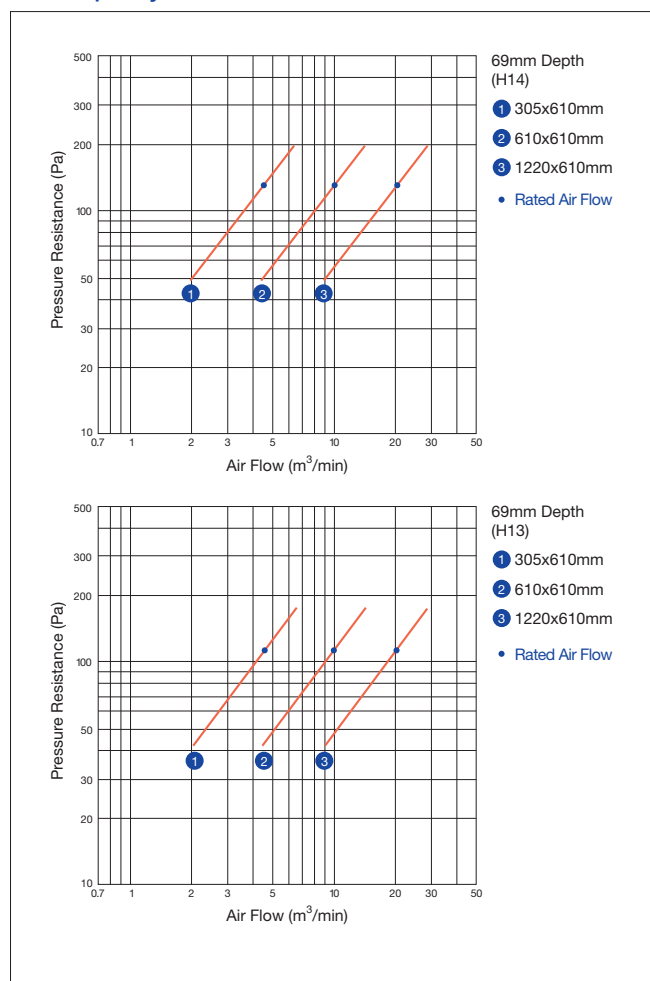
Cellside	Anodized Aluminium
Media	Glass Fiber
Separator	Hot Melt
Faceguard	Anodized Aluminium, E.G Powder Baked
Sealant	Polyurethane
Gasket	EPDM, Neoprene, Gel, Knife-edge

Down stream side attached with face guard.
 Standard position for gasket is both up & downstreams.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.



LunaKleen CF

- Used in clean air and other advance clean room
- 99.99% efficiency and above for 0.3µm particles
- For fan filter unit

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
24x24x9	600x600x230	9.5	7	99.99 and above (H13)	105	498
24x48x9	600x1210x230	19.5	11			
24x24x14	600x600x345	9.5	8			
24x48x14	600x1210x345	19.5	12			

Measuring method : JIS B 9908 Format 1 (calculation method). IES-RP-1 & EN 1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

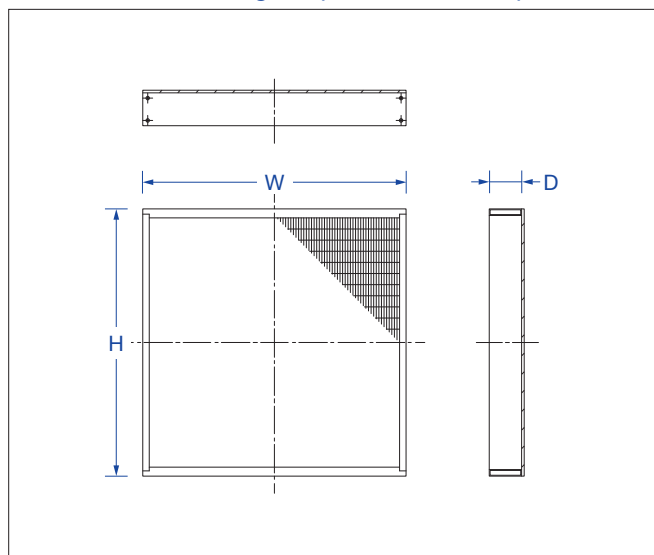
Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH Humidity (no dew condensation)

• Material

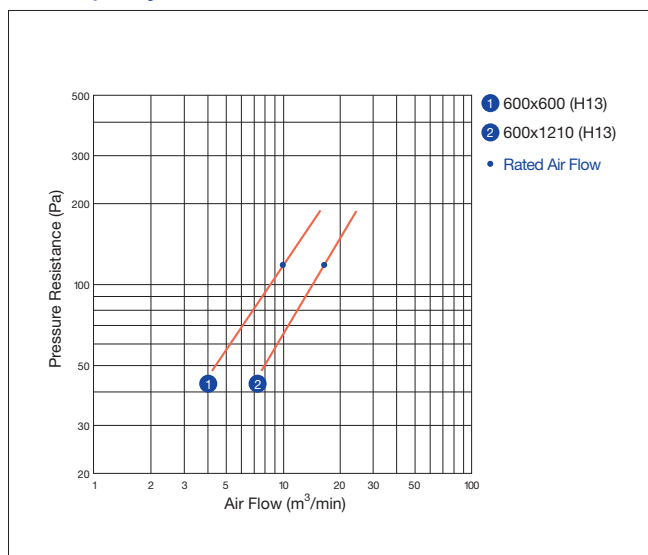
Cellside	Galvalume, Aluminium, Stainless Steel
Media	Glass Fiber
Separator	Hot Melt
Faceguard	Anodized Aluminium, E.G Powder Baked
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Down stream side attached with face guard.
 Standard position for gasket is both up & downstreams.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.



High Air Capacity Mini-pleat HEPA Filter

LunaVee Box Type

- More air processing capacity compare with high capacity HEPA filter
- In case of using with same air capacity as high capacity HEPA filter, possible for smaller space requirement
- 99.99% efficiency and above for 0.3 μ m particles

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m ³ /min)	Weight (kg)	Efficiency (% @ 0.3 μ m)	Pressure Resistance (Pa)	
					Initial	Final
12x24x12	305x610x292	25.0	9.5	99.99 and above (H13)	270	498
24x24x12	610x610x292	66.0	16.0			

Measuring method : JIS B 9908 Format 1, IES-RP-1 & EN1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

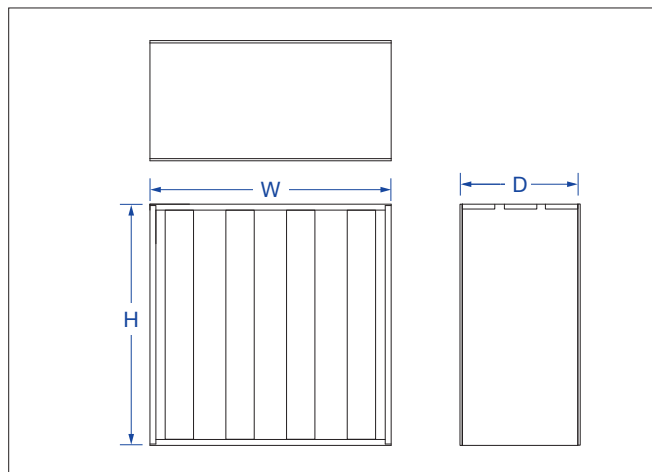
Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation)

• Material

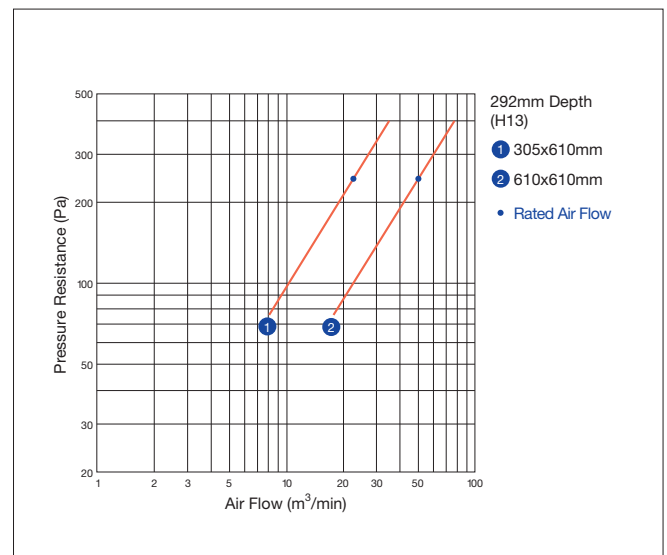
Cellside	G.I., Stainless Steel
Media	Glass Fiber
Separator	Hot Melt
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Gasket is optional.

• Outer Dimension Diagram



• Air Capacity vs Initial Pressure Resistance





High Air Capacity Mini-Pleat HEPA Filter

LunaVee Wide

- More air processing capacity compare with high capacity HEPA filter
- In case of using with same air capacity as high capacity HEPA filter, possible for smaller space requirement
- 99.99% efficiency and above for 0.3 μ m particles

• Specification

Outer Dimension WxHxD (in)	Outer Dimension WxHxD (mm)	Air Flow (m ³ /min)	Weight (kg)	Average Efficiency (%)	Pressure Resistance (Pa)	
					Initial	Final
24x12x12	592x287x292	28	5.0	99.99 and above (H13)	280	498
24x24x12	592x592x292	56	8.5			

Measuring method : JIS B 9908 Format 1 (calculation method) IES-RP-1 & EN 1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation)

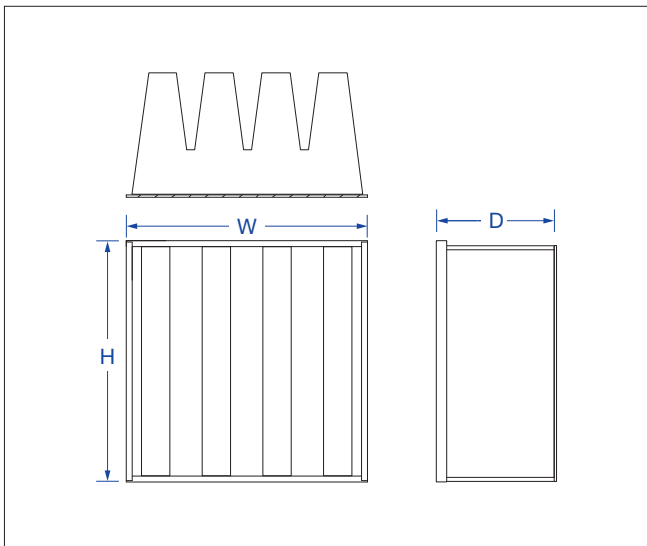
Please discuss for high temperature.

• Material

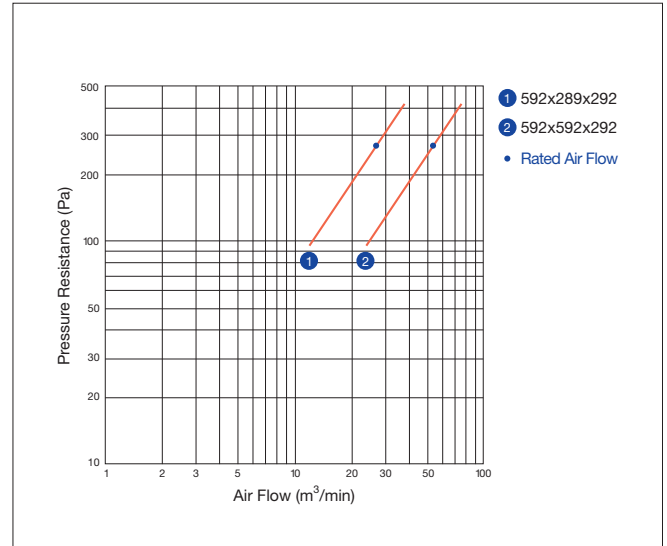
Cellside	ABS
Media	Glass Fiber
Separator	Hot Melt
Sealant	Polyurethane
Gasket	Neoprene, EPDM

Gasket is optional.

• Outer Dimension Diagram (ABS Frame)



• Air Capacity vs Initial Pressure Resistance





Standard Type Ceiling Module

LunaHood

LunaHood

- Used in clean air and other advance clean room
- 99.99% & 99.999% efficiencies for 0.3µm particles
- Space saving capability

• Specification

Outer Dimension WxHxD (in)	Outer Dimension WxHxD (mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
24x24x6	600x600x152	10.0	5.0	99.9995 (U15)	120	400
36x24x6	900x600x152	15.0	8.0			
48x24x6	1210x600x152	20.0	12.0			
24x24x6	600x600x152	10.0	5.0	99.999 (H14)	110	
36x24x6	900x600x152	15.0	8.0			
48x24x6	1210x600x152	20.0	12.0			
24x24x6	600x600x152	10.0	5.0	99.99 (H13)	105	
36x24x6	900x600x152	15.0	8.0			
48x24x6	1210x600x152	20.0	12.0			

Measurement standard : JISB9908 FORMAT 1 (calculation method) IES-RP-1 & EN 1822
 Dimension stated is without gasket. Please further inquire if need other than standard dimension.
 Final pressure is based on energy efficiency. Add 15Pa to Initial Resistance for module construction.

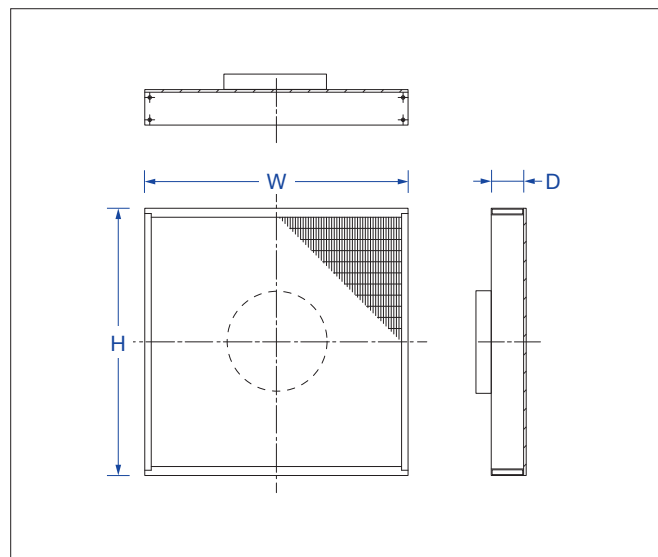
• Operating Condition

Usage Max Temperature (Continuous)	60°C
Usage Max Humidity Limit (Continuous)	100%RH (no condensation)

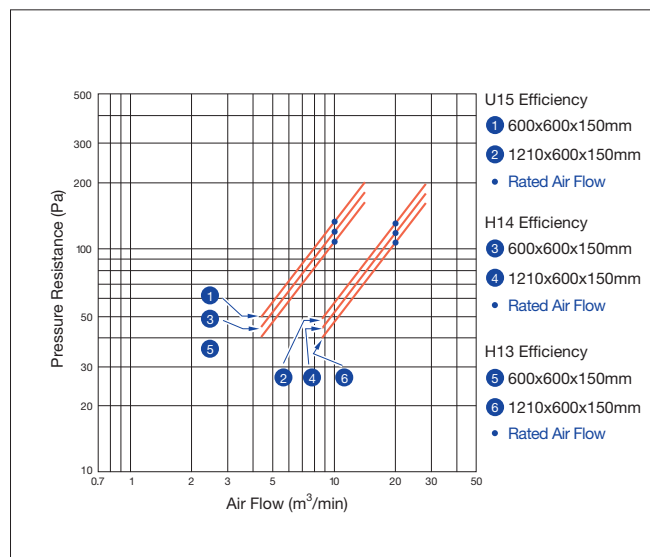
• Material

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

• External Dimension Drawing (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.



Clean Flow

- Used in clean air and other advance clean room
- 99.99% efficiency and above for 0.3µm particles
- Space saving
- Room side changeable HEPA filter
- Ease of change

• Specification

Housing Size W×H×D (mm)	Filter Size W×H×D (mm)	Air Flow (m ³ /min)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
				Initial	Final
600x1210x200	530x1140x69	16.0	99.99 (H13)	105	294
600x600x200	530x530x69	7.5			
600x1210x280	530x1140x150	22.5		250	498
600x600x280	530x530x150	10.5			
600x1210x430	530x1140x290	45.0			
600x600x430	530x530x290	21.0			

Measuring method : JIS B 9908 Format 1 (calculation method), IES-RP-1 & EN1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

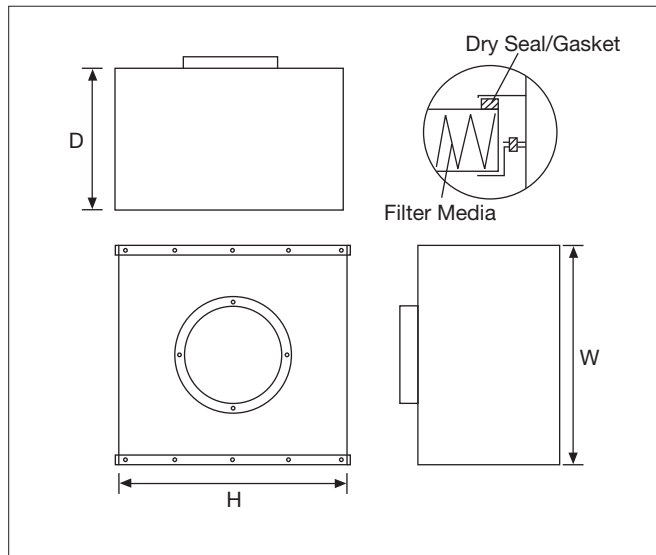
Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH Humidity (no dew condensation)

• Material

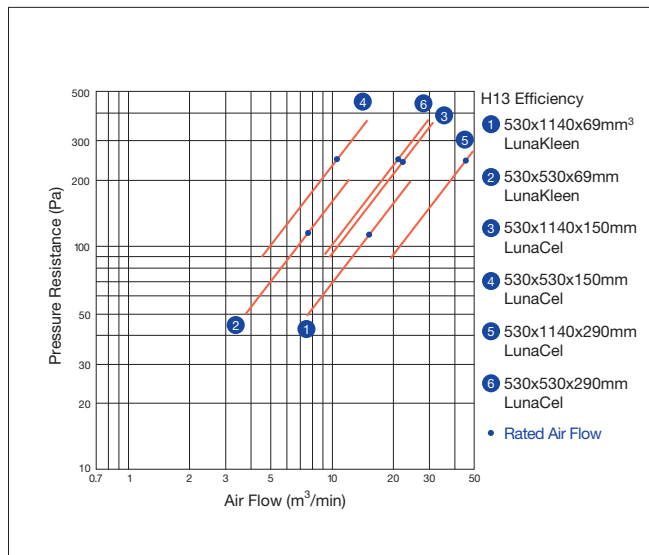
Casing	G.I Powder Baked, Aluminium, Stainless Steel
Collar	10", 12"
Filter	LunaKleen or LunaCel

Down stream side attached with face guard. Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)

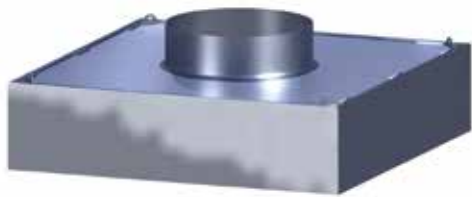


• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.

Clean Flow RSC



- Used in clean air and other advance clean room
- 99.99% efficiency and above for 0.3µm particles
- Space saving
- Room side changeable HEPA filter
- Ease of change

• Specification

Housing Size W×H×D (mm)	Filter Size W×H×D (mm)	Air Flow (m³/min)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
				Initial	Pressure
600x600x152	570x570x81	7.5	99.9995 (U15)	145	294
600x905x152	570x875x81	12.0			
600x1210x152	570x1180x81	16.0			
600x600x152	570x570x81	7.5	99.999 (H14)	125	
600x905x152	570x875x81	12.0			
600x1210x152	570x1180x81	16.0			
600x600x152	570x570x81	7.5	99.99 (H13)	110	
600x905x152	570x875x81	12.0			
600x1210x152	570x1180x81	16.0			

Measuring method : JIS B 9908 Format 1 (calculation method), IES-RP-1 & EN 1822
Please discuss for other dimension than standard.

• Operating Condition

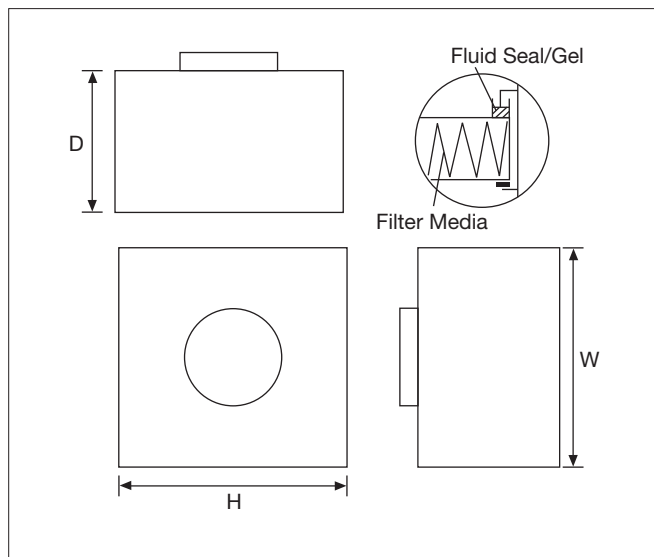
Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH Humidity (no dew condensation)

• Material

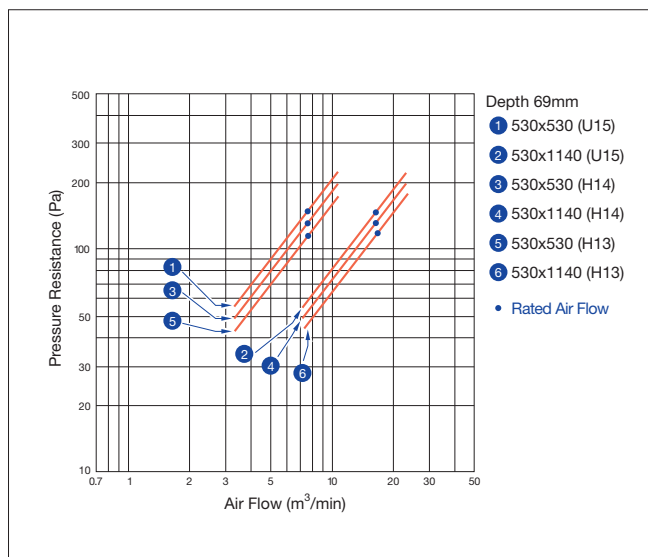
Casing	Anodized Aluminium
Collar	10", 12"
Filter	LunaKleen
Gasket	Gel

Down stream side attached with face guard.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.



Clean Flow F

- Low noise and energy consumption and vibration
- High total static pressure
- Versatile and compatible to various ceiling grid system
- Low off-gassing components

• Specification

Motor	Module (ft)	Height (mm)	Power Consumption (w)	Weight (kg)			Noise (dBA)	TSP @	
				GL	SS	AL		0.45m/s	0.3m/s
AC Type									
310 AP	2x2	275	90	14	14	10	50	230	240
	2x4	275	140	25	26	17	52	190	200
355 AK	2x4	295	190	26	28	18	53	250	310
	3x4	295	210	40	40	25	53	180	250
355 AL	3x4	315	245	40	42	25	53	260	290
	4x4	335	275	55	58	35	55	190	250
EC Type									
310 EC	2x2	250	60	14	14	10	50	230	240
	2x4	250	110	25	26	17	52	180	200
355 EC	2x4	295	140	26	28	18	53	250	310
	3x4	295	160	40	40	25	53	180	250
400 EC	3x4	315	240	41	42	26	53	300	340
	4x4	335	270	55	58	35	55	250	320

OPTIONAL ACCESSORIES

- Pre-filter
- Cost effective remote monitoring system
- 5 speed transformer type or stepless speed controller
- Pressure gauge post

• Operating Condition

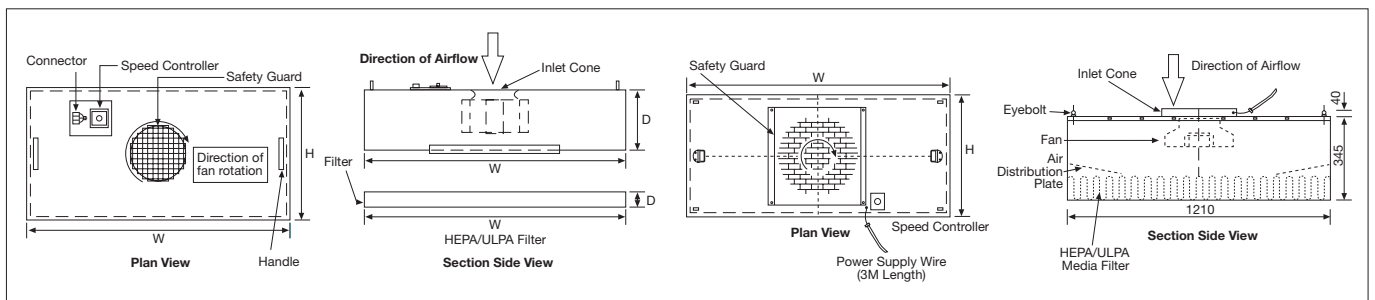
Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation)

• Material

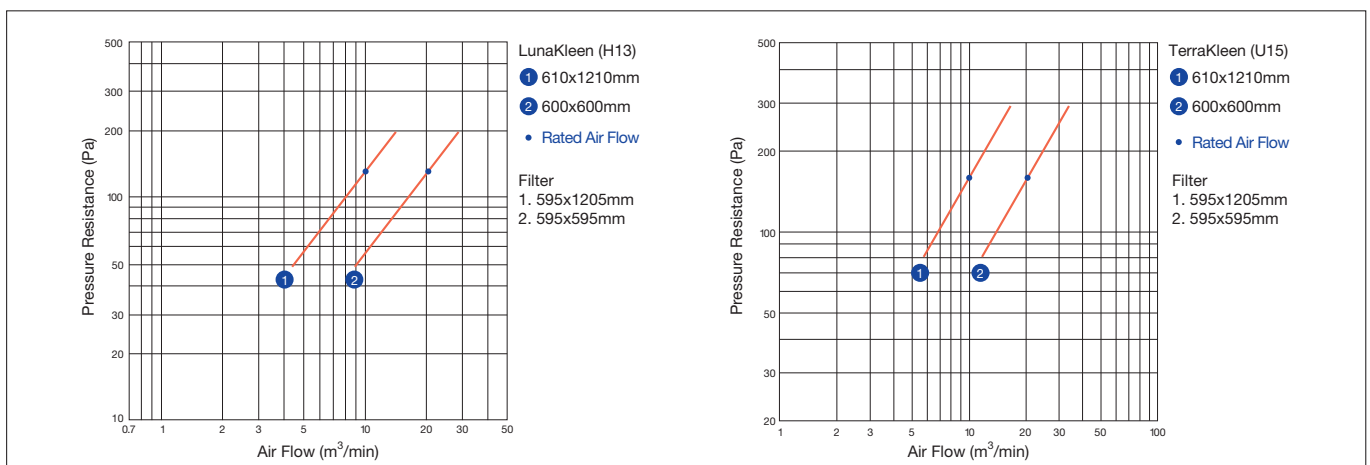
Cellside	Stainless Steel, Aluminium, Galvalume
Media	Glass Fiber
Separator	Hot Melt
Sealant	Polyurethane
Gasket	Neoprene, EPDM

Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.

Standard Type EPA Filter



ZannaCel

- 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

Outer Dimension W×H×D (in)	Outer Dimension W×H×D(mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)			
					Initial			Final
					125FPM	250FPM	500FPM	
12x12x6	305×305×150	3.5	3.0	95 and above (E10)	75	150	-	500
12x24x6	305×610×150	7.0	4.5					
24x24x6	610×610×150	14.0	6.5					
30x24x6	762×610×150	17.5	8.0					
36x24x6	915×610×150	21.0	9.5					
48x24x6	1220×610×150	28.0	12.0					
12x12x12	305×305×292	7.0	5.5	45	100	237	375	
12x24x12	305×610×292	14.0	8.0					
24x24x12	610×610×292	28.0	13.0					
30x24x12	762×610×292	35.0	15.0					

Measuring method : JIS B 9908 Format 1 (calculation method). IES-RP-1 & EN1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation) (craft paper: 85%RH)

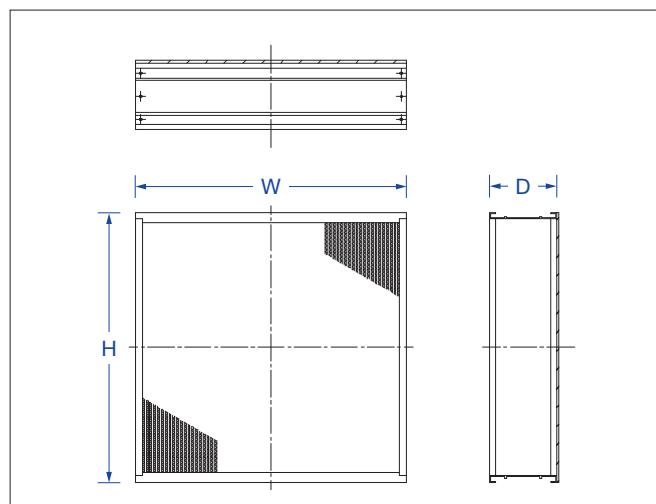
Please discuss for high temperature.

• Material

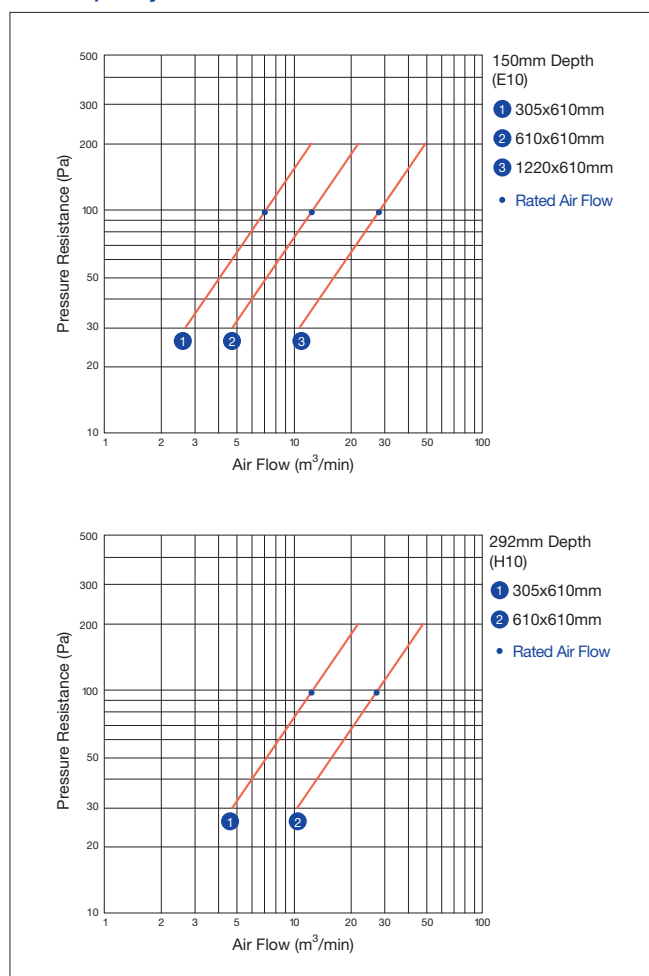
Cellside	Plywood, G.I., Stainless Steel, Aluminium, MDF
Media	Glass Fiber
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	Neoprene

Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.



High Air Flow Type EPA Filter

ZannaCel Wide

ZannaCel Wide

- 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
- STANDARD TYPE with high air flow capacity

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D(mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.3µm)	Pressure Resistance (Pa)	
					Initial	Final
12x12x6	305×305×150	7.0	3.5	95 and above (E10)	137	245
12x24x6	305×610×150	14.0	5.0			
24x24x6	610×610×150	28.0	7.5			
30x24x6	762×610×150	35.0	9.0			
36x24x6	915×610×150	42.0	10.5			
48x24x6	1220×610×150	56.0	13.5			
12x12x12	305×305×292	14.0	6.0		157	392
12x24x12	305×610×292	28.0	9.5			
24x24x12	610×610×292	56.0	16.0			
30x24x12	762×610×292	70.0	19.0			

Measuring method : JIS B 9908 Format 1 (calculation method), IES-RP-1 & EN1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation) (craft paper: 85%RH)

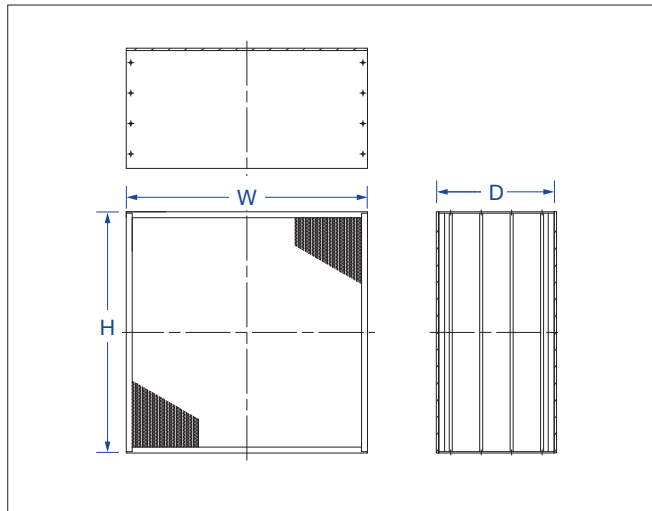
Please discuss for high temperature.

• Material

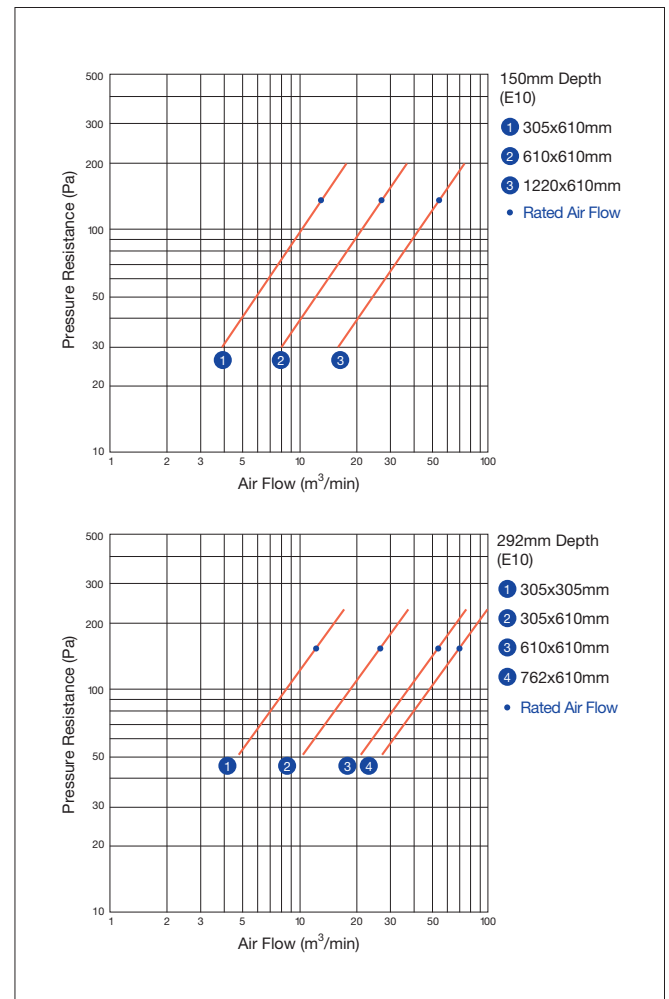
Cellside	Plywood, G.I., Stainless Steel, Aluminium, MDF
Media	Glass Fiber
Separator	Aluminium, PET
Sealant	Polyurethane
Gasket	Neoprene

Standard position for gasket is upstream.

• Outer Dimension Diagram (Aluminium Frame)



• Air Capacity vs Initial Pressure Resistance



Specification, appearance and content are subject to change without prior notice.

High Air Flow Type EPA Filter

ZannaVee Wide



ZannaVee Wide

- 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
- STANDARD TYPE with high air flow capacity

• Specification

Outer Dimension W×H×D (in)	Outer Dimension W×H×D (mm)	Air Flow (m³/min)	Weight (kg)	Efficiency (% @ 0.3µm) (E10)	Pressure Resistance (Pa)	
					Initial	Final
24x12x12	592x289x292	28	5.0	95 and above (E10)	220	498
24x24x12	592x592x292	56	8.5			

Measuring method : JIS B 9908 Format 1 (calculation method), IES-RP-1 & EN1822
 Outer dimensions are measured without gasket. Please discuss for other dimension than standard.

• Operating Condition

Usage Temperature (Continuous)	60°C
Usage Humidity Limit (Continuous)	100%RH (no dew condensation) (craft paper: 85%RH)

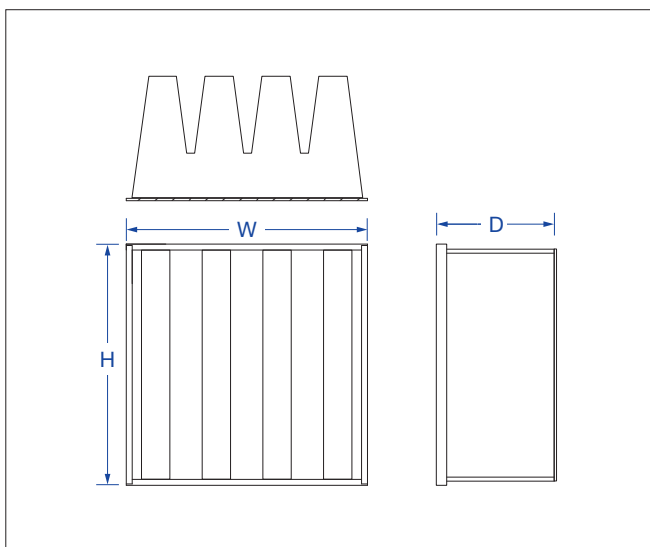
Please discuss for high temperature.

• Material

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

Gasket is optional.

• Outer Dimension Diagram (ABS Frame)



• Air Capacity vs Initial Pressure Resistance

