
HEPA

高 效 率 濾 網

/

ULPA

超 高 效 濾 網

AR302

AR305

AR601



高效率及超高效濾網

HIGH EFFICIENCY PARTICULATE AIR FILTER

平板型

Mini Pleat Panel Type

FEATURES

The air flow, initial resistance and dust collection capacity of the Mini Pleat Series media w/55mm pack is much better than conventional HEPA filter which is made with corrugate aluminum separators and with a 150mm deep.

For handling large air volume, the operation cost becomes a prime consideration in a typical clean room application. One of the most important is to evaluate the Pressure Drop of HEPA due to Pressure losses of HEPA will be consumed the most energy in any clean room.

AIRREX Mini Pleat HEPA/ULPA Filter is designed for extending filter's life span and decreasing the pressure drop. Mini Pleat series filter is suitable for clean room, workstations and benches FFU use.

EFFICIENCY

All HEPA filter efficiency is tested in accordance with US MILSTD-282 (EU Standard) and EN1822. The series provide guarantee efficiency from 99.97%, 99.99% to 99.999% (EU12-EU14) or H10-H14 (per EN-1822 standard in MPPS Test) on 0.3 micrometer size particles HEPA filter; and 99.999% to 99.99999% or U15-U16 (per EN-1822 standard in MPPS Test) on 0.1 – 0.2 micrometer size particles ULPA filters.

MEDIA

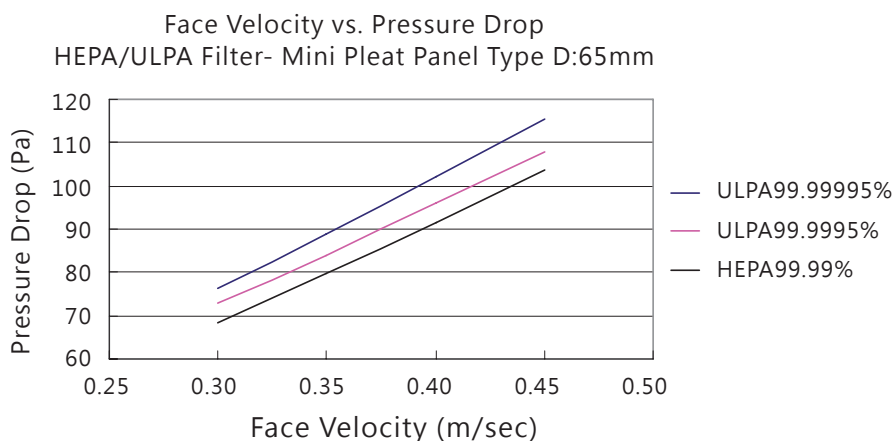
HEPA media is made from ultra fine glass fiber formed with high density papers. Use hot melting glue to replace traditional aluminum separators. Each pleat is spaced by hot-melt adhesive to allow air flow through the filter with minimum resistance. Inside of frame to be sealed by sealant to prevent filter media leakage.

FRAME

The filter media pack is permanently bonded with epoxy or PU to an anodized aluminum extruded frame or wood board frame. Aluminum extruded frame can increase strength and rigidity for corrosion resistance.



- No Corrugated Aluminum Separators
- High Efficiency and Low Pressure Drop
- Allow Great Amount of Media in Shallow Depth



Testing Method 測試方法

Particle Size 粒徑

0.3um

Efficiency (%) 效率

95%
99.97%
99.99%
99.999%

Particle Size 粒徑

0.1-0.2um

Efficiency (%) 效率

99.999% above

European Standard EN1822

高效率及超高效濾網

HIGH EFFICIENCY PARTICULATE AIR FILTER

平板型

Mini Pleat Panel Type

特色

平板型濾網提供多種的配置適用於無塵室、無塵工作站、無菌操作台及風車濾網組等嚴格的潔淨需求，迷你摺數系列的濾網過濾之風量、初壓損及集塵量效果較隔板型之HEPA濾網好很多，迷你摺數設計意在延長濾網使用壽命及降低壓損。因產業特性需求在耗材的選用上，本公司亦可提供低硼濾材，製造符合客戶需求之終端濾網。

濾材

濾材由超細玻璃纖維經摺疊組裝入框架內，濾紙經由熱熔膠間隔，不會釋出化學性污染到無塵室，使空氣以最低的壓損通過濾網。

效率

依歐規EN1822標準測試，即測試濾網之上風處與下風處粒子濃度，HEPA級效率從95~99.999%通過0.3um，ULPA級效率從99.999~99.999999%通過0.1~0.2um。

外框

外框內側四周以密封膠密封，防止濾材空隙及洩漏。鋁擠外框經陽極處理增加強度及耐久的防腐性。以PU膠密封於鋁擠型框架達到完全的氣密無洩漏。

Efficiency 效率 (%)	Nominal Size 通稱尺寸 W*H*D (inch)	Actual Size 實際尺寸 W*H*D (mm)	Rated Capacity 額定風量 (CMH)	Initial Resistance 初壓損(Pa)
99.97 99.99	24*24*2	570*570*50	400	87
		610*610*50		75
	24*24*3	570*570*65	450	99
		610*610*65		85
	24*48*2	570*1170*50	800	82
		610*1220*50		75
	24*48*3	570*1170*65	900	93
		610*1220*65		82
	48*48*2	1170*1170*50	1800	88
		1220*1220*50		81
	48*48*3	1170*1170*65	2000	97
		1220*1220*65		89
99.9995 (5N5)	24*24*2	570*570*50	400	87
		610*610*50		75
	24*24*3	570*570*65	450	99
		610*610*65		85
	24*48*2	570*1170*50	800	82
		610*1220*50		75
	24*48*3	570*1170*65	900	93
		610*1220*65		82
	48*48*2	1170*1170*50	1800	88
		1220*1220*50		81
	48*48*3	1170*1170*65	2000	97
		1220*1220*65		89
99.99995 (6N5)	24*24*2	570*570*50	400	87
		610*610*50		75
	24*24*3	570*570*65	450	99
		610*610*65		85
	24*48*2	570*1170*50	800	82
		610*1220*50		75
	24*48*3	570*1170*65	900	93
		610*1220*65		82
	48*48*2	1170*1170*50	1800	88
		1220*1220*50		81
	48*48*3	1170*1170*65	2000	97
		1220*1220*65		89

· Special Sizes are available upon request. 特殊規格可生產製造。

高效率及超高效濾網

HIGH EFFICIENCY PARTICULATE AIR FILTER

平板型

Mini Pleat Panel Type

Material and Service Conditions 材質、使用條件

Construction 總成				
Type 型式	Description 說明			
Media 濾材	TUltra-Fine Glass Fiber Filter Paper 超細玻璃纖維濾紙			
Support Grid 支撐材	Hot Melt Adhesive 熱熔膠			
Sealant 密封膠	PU BASE			
Gasket Material 墊片材質	Neoprene Rubber 新平橡膠			
Gasket Location 墊片位置	None 無	Upstream 上風	Downstream 下風	Both Sides 兩側
Frame Type 外框類型	Gasket Type 乾式		Jel Type 濕式	
Frame Material 外框材質	Anodized Extruded Aluminum 鋁框陽極處理			
Face Guard Material 保護網材質	Expanded Galvanized Metal 擴張烤漆鐵網		Anodized Extruded Aluminum 擴張陽極處理鋁網	
Face Guard Location 保護網位置	None 無	Upstream 上風	Downstream 下風	Both Sides 兩側
Service Conditions 使用條件				
The maximum continuous use temperature 連續使用最高溫度 (°C)			60	
Instant Highest Humidity 使用瞬間最高濕度 (% RH)			100 No condensation state 無結露狀態下	

高效率及超高效濾網

HIGH EFFICIENCY PARTICULATE AIR FILTER

PTFE (Teflon) 平板型

PTFE (Mini Pleat Panel Type)

FEATURES

Mini Pleat Panel type PTFE filter is no boron, low pressure drop, no chemical substance release and high-strength material, also provide a variety of configuration. AIRREX Mini Pleat Panel PTFE filter is designed for the clean room, workstations and benches FFU use. FFU use.

EFFICIENCY

HEPA Mini Pleat Panel type PTFE filter is tested in accordance with US MIL-STD-282 (EU Standard) and EN1822. The series provide guarantee efficiency from 99.99 to 99.999% (EU12-EU14) or H10-H14 (per EN-1822 standard in MPPS Test) on 0.3 micrometer size particles HEPA filter; and 99.999% to 99.99999% or U15-U16 (per EN-1822 standard in MPPS Test) on 0.1 ~ 0.2 micrometer size particles ULPA filter. FFU use.

MEDIA

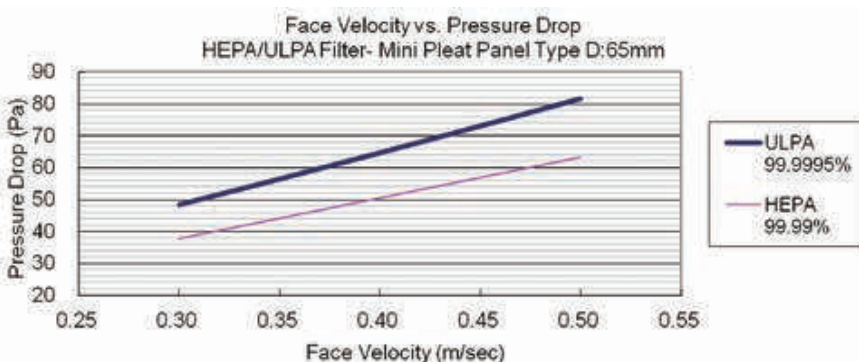
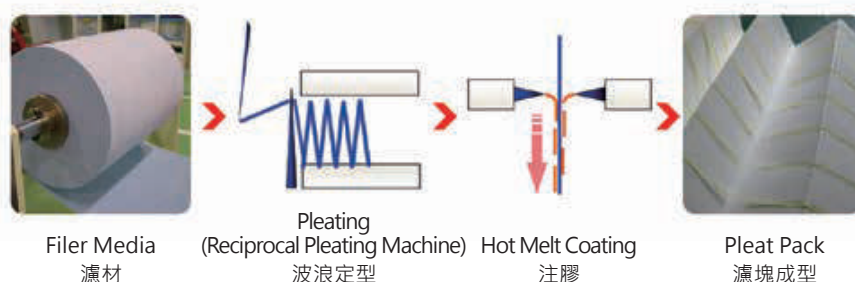
HEPA media is made from PTFE (Teflon) fiber formed with high density papers. Use hot melting glue to replace traditional aluminum separators. Each pleat is spaced by hot-melt adhesive to allow air flow through the filter with minimum resistance. Inside of frame to be sealed by sealant to prevent filter media leakage.

FRAME

The filter media pack is permanently bonded with epoxy or PU to an anodized aluminum extruded frame or wood board frame. Aluminum extruded frame can increase strength and rigidity for corrosion resistance.



- NO Boron, Low Off Gassing
- Low Presser Drop
- High Mechanical Strength



Testing Method 測試方法

Particle Size 粒徑

0.3um

Efficiency (%) 效率

99.99%

Particle Size 粒徑

0.1-0.2um

Efficiency (%) 效率

99.999%

European Standard EN1822

高效率及超高效濾網

HIGH EFFICIENCY PARTICULATE AIR FILTER

PTFE (Teflon) 平板型

PTFE (Mini Pleat Panel Type)

特色

平板型PTFE濾網不含硼、低壓損、無化學物質釋出及高強度的材質，提供多種的配置適用於無塵室、無塵工作站、無菌操作台及風車濾網組等嚴格的潔淨需求，製造符合客戶需求之終端濾網。

濾材

濾材由PTFE (Teflon) 纖維經褶疊組裝入框架內，濾紙經由熱熔膠間隔，不會釋出化學性污染到無塵室，使空氣以最低的壓損通過濾網。

效率

依歐規EN1822標準測試，即測試濾網之上風處與下風處粒子濃度，HEPA級效率從99.99~99.999%通過0.3um，ULPA級效率從99.999~99.999999%通過0.1~0.2um。

外框

外框內側四周以密封膠密封，防止濾材空隙及洩漏。鋁擠外框經陽極處理增加強度及持久的防腐性。以PU膠密封於鋁擠型框架達到完全的氣密無洩漏。

Efficiency 效率 (%)	Nominal Size 通稱尺寸 W*H*D (inch)	Actual Size 實際尺寸 W*H*D (mm)	Rated Capacity 額定風量 (CMH)	Initial Resistance 初壓損(Pa)
99.99	24*48*3	570*1170*65	1080	57
	48*48*3	1170*1170*65	2200	57
99.9995 (5N5)	24*48*3	570*1170*65	1080	73
	48*48*3	1170*1170*65	2200	73

· Special Sizes are available upon request. 特殊規格可生產製造。

Material and Service Conditions 材質、使用條件

Construction 總成				
Type 型式	Description 說明			
Media 濾材	Teflon Filter Paper 鐵氟龍薄膜濾紙			
Support Grid 支撐材	Hot Melt Adhesive 熱熔膠			
Sealant 密封膠	PU BASE			
Gasket Material 墊片材質	Neoprene Rubber 新平橡膠			
Gasket Location 墊片位置	None 無	Upstream 上風	Downstream 下風	Both Sides 兩側
Frame Type 外框類型	Gasket Type 乾式		Jel Type 濕式	
Frame Material 外框材質	Anodized Extruded Aluminum 鋁框陽極處理			
Face Guard Material 保護網材質	Expanded Galvanized Metal 擴張烤漆鐵網		Anodized Extruded Aluminum 擴張陽極處理鋁網	
Face Guard Location 保護網位置	None 無	Upstream 上風	Downstream 下風	Both Sides 兩側
Service Conditions 使用條件				
The maximum continuous use temperature 連續使用最高溫度 (°C)			60	
Instant Highest Humidity 使用瞬間最高濕度 (% RH)			100 No condensation state 無結露狀態下	

室內可更換型濾網箱組

ROOM SIDE REPLACEMENT FILTER

室內型

Housing

FEATURES

AIRREX develops latest HEPA housing made by anodized extruded aluminum to substitute traditional heavy and expensive metallic surface trim housing. It can reduce user's operation cost. HEPA housings are for ceiling grid at clean room use or T grid use. Filter can be easily to replace or install at clean room. Base on classes of clean room to choose HEPA or ULPA filters. Compare with module type HEPA filters, end user is not necessary to replace entire box, but only need to replace new HEPA/ULPA; investment cost could be reduced a lot.



EFFICIENCY

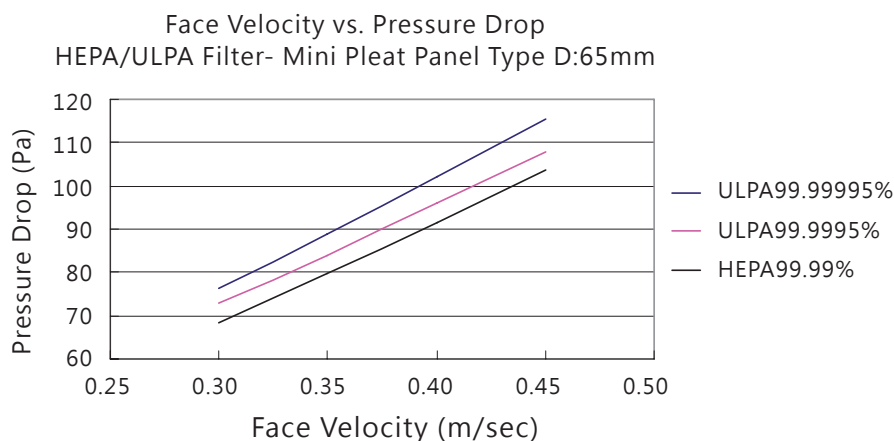
According to European Standard EN1822, by testing the particle concentration of upstream & downstream area, efficiency is from 99.99% to 99.999% @0.3 micron (H13-14) size particles HEPA filter; and 99.999% - 99.999999% @ 0.1-0.2 micron (U15-U17) size particles ULPA filter.

MEDIA

HEPA media is made from ultra fine glass fiber formed with high density papers. Each pleat is spaced by hot-melt adhesive to allow air flow through the filter with minimum resistance.

FRAME

Anodized Extruded Aluminum. Inlet size is available for 8" -14" . Total Height is 150 mm excluding of the height of Inlet. Height of Inlet is 80mm. Material of upper casing is 1.0mm thickness Painted Steel.



Testing Method 測試方法

Particle Size 粒徑

0.3um

Efficiency (%) 效率

95%
99.97%
99.99%
99.999%

Particle Size 粒徑

0.1-0.2um

Efficiency (%) 效率

99.999% above

European Standard EN1822

室內可更換型濾網箱組

ROOM SIDE REPLACEMENT FILTER

室內型

Housing

特色

室內可更換型箱組設計用於無塵室乾式天花板骨架或濕式天花板骨架系統。於室內更換濾網，安裝簡便。濾網可依客戶需要彈性設計，可選擇摺紙厚度、濾材效率、風量及入風口尺寸，無塵室設計者能配置使用量以執行符合規格及運轉成本。

濾材

濾材由超細玻璃纖維摺疊組裝入框架內，濾紙經由熱熔膠間隔，不會釋出化學性污染到無塵室，使空氣以最低的壓損通過濾網。

效率

依歐規EN1822標準測試，即測試濾網之上風處與下風處粒子濃度，HEPA級效率從95~99.999%通過0.3um，ULPA級效率從99.999~99.999995%通過0.1~0.2um。

外框

材質為陽極處理鋁擠型，上蓋材質為1.0mm厚鐵烤漆，箱體高度150mm(不含入風口高度)，入風口高度尺寸80mm。

Efficiency 效率 (%)	Housing Size 箱體尺寸 W*H*D (inch)	Filter Size 濾網尺寸 W*H*D (mm)	Rated Capacity 額定風量 (CMH)	Initial Resistance 初壓損(Pa)	Particle size 粒徑 (um)
99.97 99.99	570*570*150	528*528*80	350	100	0.3
	600*600*150	558*558*80		88	
	570*1170*150	528*1128*80	800	101	
	600*1210*150	558*1168*80		91	
99.9995 (5N5)	570*570*150	528*528*80	350	104	0.1~0.2
	600*600*150	558*558*80		92	
	570*1170*150	528*1128*80	800	104	
	600*1210*150	558*1168*80		96	

· Special Sizes are available upon request. 特殊規格可生產製造。

Material and Service Conditions 材質、使用條件

Construction 總成				
Type 型式	Description 說明			
Media 濾材	Ultra-Fine Glass Fiber Filter Paper 超細玻璃纖維濾紙			
Support Grid 支撐材	Hot Melt Adhesive 熱熔膠			
Sealant 密封膠	PU BASE			
Gasket Material 墊片材質	Neoprene Rubber 新平橡膠			
Gasket Location 墊片位置	None 無	Upstream 上風	Downstream 下風	Both Sides 兩側
Frame Type 外框類型	Gasket Type 乾式			
Frame Material 外框材質	Anodized Extruded Aluminum 鋁框陽極處理			
Face Guard Material 保護網材質	Expanded Galvanized Metal 擴張烤漆鐵網		Anodized Extruded Aluminum 擴張陽極處理鋁網	
Face Guard Location 保護網位置	None 無	Upstream 上風	Downstream 下風	Both Sides 兩側
Inlet Size 入風口尺寸 (inch)	8	10	12	14
Inlet Height 入風口高度 (mm)	80			
Insulation Material 保溫材質	PE			
Insulation Thickness 保溫厚度 (mm)	None 無		10	25
Service Conditions 使用條件				
The maximum continuous use temperature 連續使用最高溫度 (°C)			60	
Instant Highest Humidity 使用瞬間最高濕度 (% RH)			100 No condensation state 無結露狀態下	

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