



高效率及超高效濾網 - 平板型 <HEPA/ULPA>

High Efficiency Particulate Air Filter (HEPA/ULPA)
– Mini Pleat Panel Type

Features:

- ※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	Efficiency (%) 效率
	0.3um	95%
		99.97%
		99.99%
99.999%		
0.1-0.2um	99.999% above	
European Standard EN1822		

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 MIL-STD-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 99.999999% 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:

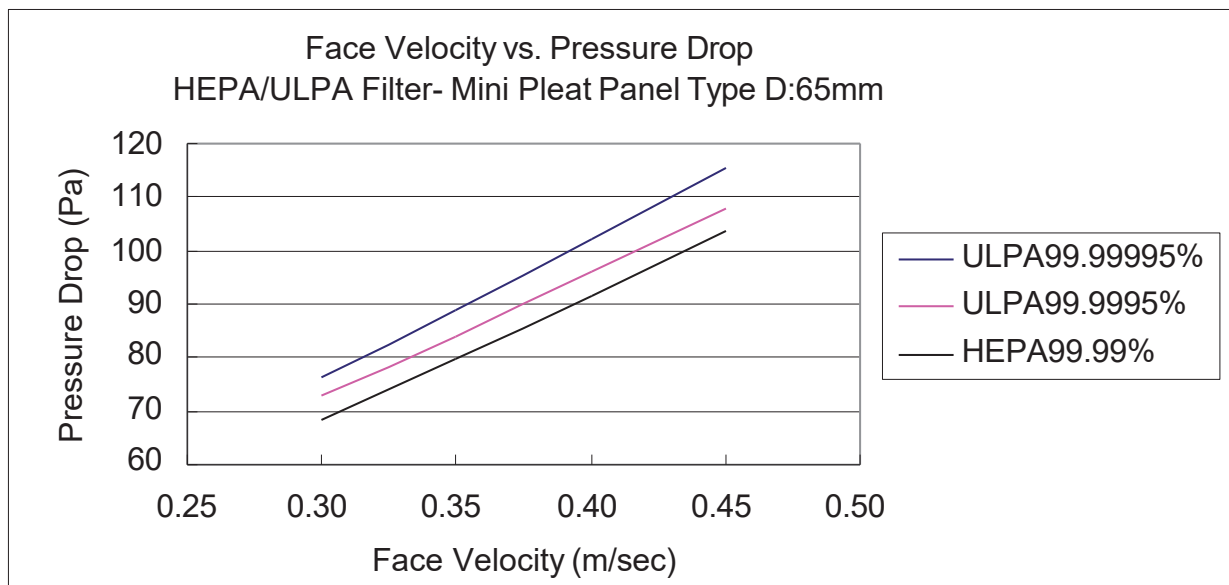
The filter media pack is permanently bonded with epoxy or PU to an anodized aluminum extruded frame or wood board frame. Aluminum extruded frame can increase strength and rigidity for corrosion resistance.

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。

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。

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。

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硬度及耐久的防腐性。以PU膠密封於鋁擠型框架達到完全的氣密無洩漏。





High Efficiency Filter Performance Data - Mini Pleat Panel Type (HEPA/ULPA)

高效率及超高效率濾網性能表 - 平板型濾網

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	91
		610*610*50		79
	24*24*3	570*570*65	450	103
		610*610*65		89
	24*48*2	570*1170*50	800	86
		610*1220*50		79
	24*48*3	570*1170*65	900	97
		610*1220*65		86
	48*48*2	1170*1170*50	1800	92
		1220*1220*50		85
	48*48*3	1170*1170*65	2000	101
		1220*1220*65		93
99.99995 (6N5)	24*24*2	570*570*50	400	97
		610*610*50		83
	24*24*3	570*570*65	450	109
		610*610*65		97
	24*48*2	570*1170*50	800	91
		610*1220*50		81
	24*48*3	570*1170*65	900	103
		610*1220*65		92
	48*48*2	1170*1170*50	1800	98
		1220*1220*50		90
	48*48*3	1170*1170*65	2000	109
		1220*1220*65		100

* 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

Type 型式		Description 說明			
Construction 總成	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		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) 100 (無結露狀態下)		



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