



終端拋棄型濾網箱組

Terminal (Module) Filter

	Particle Size 粒徑	Efficiency (%) 效率
Testing Method 測試方法	0.3um	95%
		99.97%
		99.99%
		99.999%
	0.1-0.2um	99.999% above
European Standard EN1822		

Feature:

High Quality Construction in a Highly Versatile Design.

Terminal Filter Modules are designed for standard T- bar ceiling grids or Gel seal ceiling grid system use. It's easy and simple to install and maintain these thin and lightweight units.

The module can be flexibly designed to meet customer spec' s demand. By selecting among pack depth, media efficiency, air capacity and inlet size, the clean room designer can configure the unit to meet spec requirements and operating cost.

Depending on the number of units used in the ceiling, the rate of air recirculation and clean room overall design, Airrex Terminal Filter Modules is able to provide cleanliness levels from Class 1 to Class 100,000.

The unique Benefits:

- ※To eliminate the concern of air blockage is better than Deep Pleat Type Air Filer.
- ※ With Anticorrosive and Anodized Extruded Aluminum Housing Construction.
- ※ Four (4) suspending holes to provide seismic protection and reduce the stress load of grid.
- ※ Dimpled inlet collars help to secure the HVAC ductwork and prevent slippage.
- ※100% quality control- every unit is tested and certified to meet efficiency and pressure drop requirements.

Factory Testing

Airrex tests all terminal filter modules to be in accordance with the International Environmental Science recommended particles standard. Test result including of penetration value (%) and pressure drop (inch/ w.g.) will be recorded on filter label and carton label.

Capacity vs Pressure Drop

The EN 1822 Test Machine examines each filter's Capacity vs. Pressure Drop. Capacity test is according to volumetric parameters, i. e., 100 CFM per square foot of filter face area, which is an expression of the volume of air moving through the filter.



Scan Test

In addition to the efficiency test and penetration test, by using a laser particle counter to scan each filter surface and edge to examine any pinhole leakage. Readings greater than 0.01% of the upstream concentration are determined as unacceptable; the filter must be rejected or repaired and retested.

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:

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.

Housing Material:

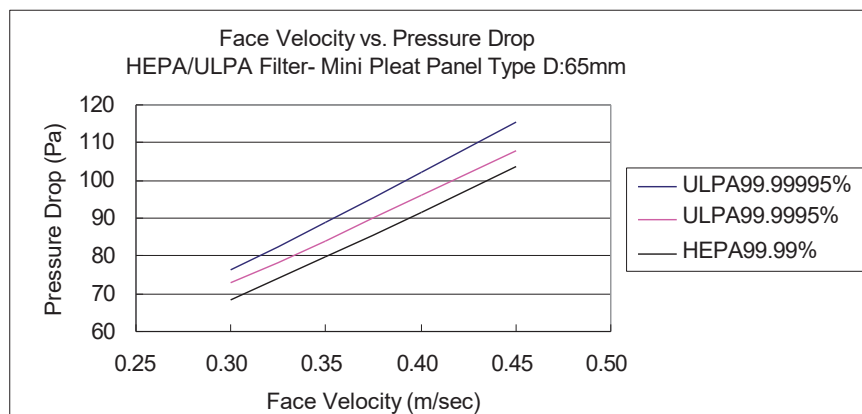
Anodized Extruded Aluminum construction. Inlet size is available for 8" -14" . Total Height is 150 mm excluding of the height of Inlet. Height of Inlet is 80mm. Material of upper casing is 1.0mm thickness Painted Steel.

特色： 終端拋棄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。安裝及維修既簡單又平整。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。依據此型濾網使用於天花板之數量，空氣之循環率和整體的無塵室設計，此層流濾網能提供潔淨標準從潔淨度1到100,000。

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。

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

箱組： 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130mm(不含入風口高度)，入風口高度尺寸80mm。





Performance Data – Terminal Filter Modules (Mini Pleat Series)

終端拋棄型濾網箱組性能表 - 高效率及超高效率濾網

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)	Particle size 粒徑 (um)
99.97 99.99	24*24	570*570*130	450	103	0.3
		600*600*130		92	
	24*48	570*1170*130	900	97	
		600*1210*130		87	
99.9995 (5N5)	24*24	570*570*130	450	108	0.1~0.2
		600*600*130		96	
	24*48	570*1170*130	900	101	
		600*1210*130		93	

* 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	Non 無	Downstream 下風		
	Housing Type 外框類型	Gasket Type 乾式			
	Housing Material 外框材質	Anodized Extruded Aluminum 鋁框陽極處理			
	Face Guard Material 保護網材質	Expanded Painted Steel Metal 擴張烤漆鐵網	Anodized Extruded Aluminum Metal 擴張陽極處理鋁網		
	Face Guard Location 保護網位置	Downstream 下風			
	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) 100 (無結露狀態下)		



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