



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

	Particle Size	Efficiency (%)
Testing Method	0.3um	95%
		99.97%
		99.99%
		99.999%
	0.1-0.2um	99.999% above
By European Standard EN1822		

Features:

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

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:

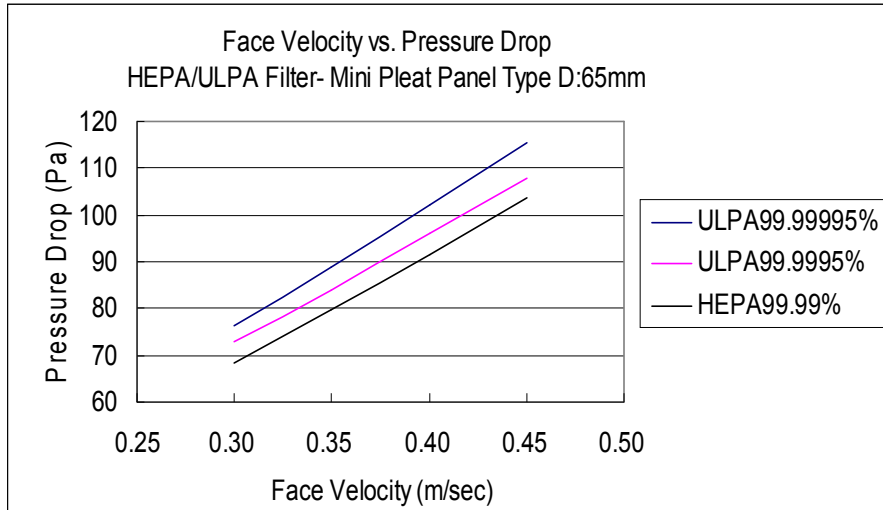
All HEPA filter efficiency is tested in accordance with US MIL-STD-282 (EU Standard) and EN1822. The series provide guarantee efficiency from 99.97%, 99.99% to 99.999% (EU12-EU14) or H10-H14 (per EN-1822 standard in MPPS Test) on 0.3 micrometer size particles HEPA filter; and 99.999% to 99.999999% or 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



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

Efficiency (%)	Nominal Size (W*H*D) (inch)	Actual Size (W*H*D) (mm)	Rated Capacity (CMH)	Initial Resistance (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	

*Special Sizes are available upon request.

Efficiency (%)	Nominal Size (W*H*D) (inch)	Actual Size (W*H*D) (mm)	Rated Capacity (CMH)	Initial Resistance (Pa)
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.

Material and Service Conditions

Type		Description			
Construction	Media	Ultra-Fine Glass Fiber Filter Paper			
	Support Grid	Hot Melt Adhesive			
	Sealant	PU BASE			
	Gasket Material	Neoprene Rubber			
	Gasket Location	None	Upstream	Downstream	Both Sides
	Frame Type	Gasket Type		Jel Type	
	Frame Material	Anodized Extruded Aluminum			
	Face Guard Material	Expanded Galvanized Metal		Anodized Extruded Aluminum	
	Face Guard Location	None	Upstream	Downstream	Both Sides
Service Conditions	The maximum continuous use temperature	°C	60		
	Instant Highest Humidity	% RH	100 (No condensation state)		