



MayAir Manufacturing (M) Sdn Bhd (650453-W)

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TABLE 1.1 for AIR FILTERS and EFFICIENCY

CLASSIFICATION	Arrestance or Dust Spot Efficiency	US ASHRAE 52.2	European Union EN779 Class		Typical Controlled Contaminant	Application	MAYAIR Range of Products		
PRE Filter (G Class)	AFI <65 %	MERV 1	G1	Am < 65 %	Particle bigger than 10.0µm (Pollen) (Spanish moss) (Dust mites) (Sanding dust) (Spray paint dust) (Textile fibers)	Gross filter, domestic and commercial	M-NET		
	AFI 65 %-70%	MERV 2	G2	65 % ≧ Am < 80 %			M-WASH		
	AFI 70 %-75%	MERV 3					ROLL MEDIA		
	AFI 75 %-80%	MERV 4							
	AFI 80 %-85%	MERV 5	G3	80 % ≧ Am < 90 %	Particle size within 3.0µm-10.0µm (Mold) (Spores) (Hair spray) (Cement dust) (Snuff) (Powdered milk)	Commercial, industrial, paint shop	M-NET		
	AFI 85 %-90%	MERV 6					M-WASH		
	NBS 25 %-30%	MERV 7	G4	90 % ≧ Am			M-DP		
	NBS 30 %-35%	MERV 8					ROLL MEDIA		
MEDIUM Filter (F Class)	NBS 40 %-45%	MERV 9	F5	40 % ≧ Em < 60 %			Particle Size within 1.0µm-3.0µm (Lead dust) (Milled flour) (Coal dust) (Auto emissions) (Nebulizer drop) (Welding fumes)	IAQ concerned commercial & industrial, medical	M-PACK
	NBS 50 %-55%	MERV 10							M-BOX
	NBS 60 %-65%	MERV 11	F6	60 % ≧ Em < 80 %	M-MI, M-MII				
	NBS 70 %-75%	MERV 12			M-MV				
	NBS 80 %-85%	MERV 13	F7	80 % ≧ Em < 90 %	Particle size within 0.3µm-1.0µm (All bacteria) (cooking oil) (Most smoke) (Copier toner) (Most face powder) (Most paint pigments)	IAQ concerned commercial, industrial, medical, food etc	M-PACK		
	NBS 90 %-95%	MERV 14	F8	90 % ≧ Em < 95 %			M-BOX		
	NBS >95 %	MERV 15	F9	95 % ≧ Em			M-MI, M-MII		
MERV 16		M-MV							



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TABLE 1.2 for AIR FILTERS and EFFICIENCY

CLASSIFICATION	Mean Fractional Efficiency	IEST RP-CC001.3	European Union EN1822 Class		Typical Controlled Contaminant	Application	MAYAIR Range of Products	
HEPA Filter (H Class)	≧ 95% at 0.3µm	n/a	H10	≧ 85% at MPPS	Particle size bigger than 0.3µm (Virus [unattached]) (Carbon dust) (Sea salt) (All combustion smoke) (Radon progeny)	All types of cleanrooms	M-HI	
	≧ 98% at 0.3µm		TYPE A	H11			≧ 95% at MPPS	M-HV
	≧ 99.97% at 0.3µm	TYPE C		H12			≧ 99.5% at MPPS	M-CFCN
	≧ 99.99% at 0.3µm			H13			≧ 99.95% at MPPS	M-CAM
	≧ 99.995% at 0.3µm	TYPE D		H14			≧ 99.995% at MPPS	M-TMI
	≧ 99.999% at 0.3µm		M-FFU					
ULPA Filter (U Class)	≧ 99.9995% at 0.12µm	TYPE F	U15	≧ 99.9995% at MPPS	Particle size bigger than 0.12µm	super cleanroom	M-HV & M-CAM	
	≧ 99.99995% at 0.12µm		U16	≧ 99.99995% at MPPS			M-CFCN	
	≧ 99.999995% at 0.12µm		U17	≧ 99.999995% at MPPS			M-FFU	

Note :

1. AFI : American Filter Institute
2. NBS : National Bureau of Standards
3. ASHRAE : American Society of Heating Refrigerating & Air-conditioning Engineers
4. MERV : Minimum Efficiency Reporting Value
5. MPPS : Most Penetrating Particle Size
6. HEPA : High Efficiency Particulate Air Filter
7. ULPA : Ultra Low Penetration Air Filter
8. Am : Average Arrestance Efficiency for Coarse Filters
9. Em : Average Efficiency for Fine Filters
10. IEST : Institute of Environmental Sciences and Technology