



Air Filter Quick Selection Guide

Filter Grade	Efficiency	Filter Type	EN 779:2012		ASHRAE Std. 52.2-2007			ASHRAE Std. 52.1-1992							
			G1-G4	Am%=Average arrestance fo synthetic dust	Composite Average Particle Size Removal Efficiency En% in size Range			Average Arrestance	Average Dust Spot Efficiency						
			M5-F9	Em%=Average efficiency at 0.4 μm minE%=Minimum efficiency at 0.4 μm	MERV	Range Group 1 0.3-1.0 μm.	Range Group 2 1.0-3.0 μm.			Range Group 3 3.0-10.0 μm.					
Coarse Filters (G Class)	Gravimetric		G1	50%≤Am<65%	1	-	-	E ₃ <20%	Aavg<65%	<20%					
			G2	65%≤Am<80%		2-4	-	-	E ₃ <20%	65%≤Aavg<70%	<20%				
			G3	80%≤Am<90%			-	-	E ₃ <20%	75%≤Aavg	<20%				
			G4	90%≤Am			4-5	-	-	E ₃ <20%	75%≤Aavg	<20%			
Medium Filter (M Class)	Colormetric		M5	40%≤Em<60%	-	8-11		-	-	70%≤E ₃	92%	30%~35%			
							-	E ₂ <50%	85%≤E ₃	95%	40%~45%				
							-	50%≤E ₂ <65%	85%≤E ₃	96%	50%~55%				
							-	65%≤E ₂ <80%	85%≤E ₃	97%	60%~65%				
Fine Filter (F Class)	Colormetric		M6	60%≤Em<80%	-	11-12	-	65%≤E ₂ <80%	85%≤E ₃	97%	60%~65%				
							-	80%≤E ₂	90%≤E ₃	98%	70%~75%				
							F7	80%≤Em<90%	35%≤minE	13-14	E ₁ <75%	90%≤E ₂	90%≤E ₃	98%	80%~85%
											75%≤E ₁ <85%	90%≤E ₂	90%≤E ₃	99%	90%~95%
F8	90%≤Em<95%	55%≤minE	14-15	75%≤E ₁ <85%	90%≤E ₂	90%≤E ₃	99%	90%~95%							
				85%≤E ₁ <95%	90%≤E ₂	90%≤E ₃	99%	95%							
F9	≥95%	70%≤minE	15-16	85%≤E ₁ <95%	90%≤E ₂	90%≤E ₃	99%	95%							
				95%≤E ₁	95%≤E ₂	95%≤E ₃	100%	99%							
EPA Filter	≥95% at 0.3μm		-	-	-	16	95%≤E ₁	95%≤E ₂	95%≤E ₃	100%	99%				
Filter Grade	Efficiency	Filter Type	EN 1822:2009		IEST RP-CC001.5-2009			ISO 29463-1:2011							
			Class	Integral Efficiency	MERV	TYPE	Integral Efficiency	Integral Efficiency at MPPS							
EPA Filter (E Class)	≥95% at 0.3μm		E10	≥85% at MPPS	ASHRAE Std. 52.2-2007 MERV 16 ≥85% at 0.3μm-10.0μm			-	-						
	≥95% at 0.3μm		E11	≥95% at MPPS	ASHRAE Std. 52.2-2007 MERV 16 ≥95% at 0.3 μm-10.0 μm			ISO 15 E	≥95%						
HEPA Filter (H Class)	≥99.97% at 0.3μm		E12	≥99.5% at MPPS	17	C	≥99.97% at 0.3μm	ISO 20 E	≥99%						
	≥99.99% at 0.3μm		H13	≥99.95% at MPPS				18	C	≥99.99% at 0.3μm	ISO 25 E	≥99.5%			
											ISO 30 E	≥99.9%			
≥99.999% at 0.3μm	H14	≥99.995% at MPPS	19	C	≥99.999% at 0.3μm	ISO 35 H	≥99.95%								
						ISO 45 H	≥99.995%								
ULPA Filter (U Class)	≥99.9995% at 0.13μm		U15	≥99.9995% at MPPS	20	F	≥99.9995% at 0.1μm-0.2μm or ≥99.9995% at 0.21μm-0.3μm	ISO 40 H	≥99.99%						
	≥99.99995% at 0.13μm		U16	≥99.99995% at MPPS			-	G Super ULPA	≥99.9999% at MPPS	ISO 50 U	≥99.999%				
										ISO 55 U	≥99.9995%				
										ISO 60 U	≥99.9999%				
≥99.999995% at 0.13μm	U17	≥99.999995% at MPPS	ISO 65 U	≥99.99995%											
							ISO 70 U	≥99.99999%							
							ISO 75 U	≥99.999995%							