Comparison Chart

ASHRAE 52.2, 52.1, EN779, EN 1882

ASHRAE Standard 52.2-1999				ASHRAE 52.1		EN779 Efficiency		EN 1822 Efficiency
Minimum Eff Reporting Value	Composite Average Particle Size Efficiency,			Average Arrestance	Average Dust Spot Efficiency			
	% in Size Range, μm							
	Range 1	Range 2	Range 3			Average Eff at 0.4 μm	Minimum Eff at 0.4 μm	Average Eff at MPPS
(MERV	0.30 - 1.0	1.0 - 3.0	3.0 - 10.0	%	%	%	%	%
1	n/a	n/a	E3<20	Aavg<65	<20	G1	-	
2	n/a	n/a	E3<20	Aavg<65	<20	G2	-	
3	n/a	n/a	E3<20	Aavg<70	<20			
4	n/a	n/a	E3<20	Aavg<75	<20			
5	n/a	n/a	E3≥20	80	20	G3	-	
6	n/a	n/a	E3≥35	85	20-25			
7	n/a	n/a	E3≥50	90	25-30	G4	-	
8	n/a	n/a	E3≥70	92	30-35			
9	n/a	n/a	E3≥85	95	40-45	M5	-	
10	n/a	E2≥50	E3≥85	96	50-55			
11	n/a	E2≥65	E3≥85	97	60-65	M6	-	
12	n/a	E2≥80	E3≥90	98	70-75			
13	n/a	E2≥90	E3≥90	98	80-85	F7	35	
14	E1≥75	E2≥90	E3≥90	99	90-95	F8	55	
15	E1≥85	E2≥90	E3≥90	99	95	F9	70	
16	E1≥95	E2≥95	E3≥95	100	99			
						E10		<85
						E11		<95
						E12		<99.5
						H13		<99.95
N/A	N/A	N/A	N/A	N/A	N/A	H14		<99.995
						U15		<99.9995
						U16		<99.99995
						U17		<99.999995

Note: The final MERV value is the highest MERV where the filter data meets all requirements of that MERV.

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