

MERV EFFICIENCY COMPARISON

ASHRAE STANDARD 52.2-1999				ASHRAE 52.1		EN	EN779:2012		EN1822	
Composite Average Particle Size Efficiency % in Size Range, µm				Average Arrestance	Average Dust Spot Efficiency	Filter Class	Average Arrestance of Syn. Dust	Average Efficiency at 0.4 µm	Minimum Efficiency at 0.4 µm	Average Efficiency MPPS
	Range 1	Range2	Range3	NB. This standard is obsolete and here for reference only. Performances are not equivalent to ASHRAE 52.2 or EN779			Test Final DP 250Pa	Test Final DP 450Pa		
MERV	0.30-1.0	1.0-3.0	3.0-10.0	%	%	%	%	%	%	%
10	n/a	E2≥50	E3≥85	96	50-55	M5		40≤Em≤60		
11	n/a	E2≥65	E3≥85	97	60-65	M6		60≤Em≤80		
12	n/a	E2≥80	E3≥90	98	70-75	M6		60≤Em≤80		
13	n/a	E2≥90	E3≥90	98	80-85	F7		80≤Em≤90	35	
14	E1≥75	E2≥90	E3≥90	99	90-95	F8		90≤Em≤95	55	
15	E1≥85	E2≥90	E3≥90	99	95	F9		95≤Em	70	
16	E1≥95	E2≥95	E3≥95	100	99	E10				85
						E11				95
						E12				<99.5
						H13				<99.95
						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.

