

Filter Efficiency Guide

(1) Arrestance	(1) Efficiency	(2) MERV	(3) European Efficiency Class	Filter Type	Flanders- Corporation Product Selection
60-80%	Less Than 20%	MERV 1-4	G1, G2	Disposable Panel Filter	EZ Flow, EZ Flow II, HD Industrial Grade Modified Channel Frame, Pinch Frame Kwik Kut, Hammock, Permaire Service Rolls, Pads
80-90%	Less Than 20%	MERV 5	G3	Disposable Panel Filters	HD Industrial Grade, Modified Channel Frame
				Ring Panel Filters	Series ST55, Series 225T, Series 325T, Series 425T
				Synthetic Media	5DT, 1DT, 2DT, Pre-T Model, Scrimback PSF PSF55, PSF225, PSF325, PSF425
				Automatic Roll Filter Media	Scrim-back Glass, Skin-back Glass, Economy Glass, Polyester /Treated Poly Media
90-95%	20-30%	MERV 6	G4	Cube Filters	Series ST55, Series 225T Series 325T, Series 425T
95%	25-30%	MERV 6-7	G4	Pleated Panel Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
				Extended Surface Pocket Filters	Economy Pleat
95-98%	30-40%	MERV 7-8	G4	Pleated Panel Filters	Economy Pleat, Pre Pleat 40, FCP Carbon Pleat
				Extended Surface Pocket Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
				Extended Surface Rigid Cell Filters	Rigid Air, Super-Flow Q, Super-Flow V, PrecisionCell, PrecisionCell II, PrecisionCell M PrecisionCell MSH
98%	40-50%	MERV 8-9	F5	Extended Surface Pocket Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
99%	50-60%	MERV 9-10	F5	Extended Surface Pocket Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
				Extended Surface Rigid Cell Filters	Rigid Air, Super-Flow Q, Super-Flow V PrecisionCell, PrecisionCell II, PrecisionCell M, PrecisionCell MSH
99%	60-70%	MERV 10-11	F6	Pleated Panel Filters	Pre Pleat 62RM11
				Extended Surface Pocket Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
				Extended Surface Rigid Cell Filters	Rigid Air, Super-Flow Q, Super-Flow V PrecisionCell, PrecisionCell II, PrecisionCell M PrecisionCell MSH, PrecisionCell M16, PrecisionCell HT, PrecisionCell GT Super-Flow VC, Vapor Clean
99%	70-80%	MERV 12-13	F6	Extended Surface Pocket Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
99%	80-90%	MERV 13-14	F7	Extended Surface Pocket Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
				Extended Surface Rigid Cell Filters	Rigid Air, Super-Flow Q, Super-Flow V PrecisionCell, PrecisionCell II, PrecisionCell M PrecisionCell MSH, PrecisionCell M16 PrecisionCell HT, PrecisionCell GT, Super-Flow VC, Vapor Clean
99%	90-95%	MERV 14-15	F8	Extended Surface Pocket Filters	PrecisionPak, Swiss Aire, PrecisionPak XDH
				Extended Surface Rigid Cell Filters	Rigid Air, Super-Flow Q, Super-Flow V, PrecisionCell, PrecisionCell II, PrecisionCell M, PrecisionCell MSH, PrecisionCell M16, PrecisionCell HT, PrecisionCell GT Super-Flow VC, Vapor Clean
N/A	95% DOP	MERV 16	H11	Extended Surface Rigid Cell Filters	Alpha 95, PrecisionCell M16
N/A	99.97%	N/A	U13-14 U15	HEPA/ULPA Filters	Alpha-Cell E, Alpha Cell, Alpha 2000, Alpha HT Super-Flow 24, Alpha Cell, Alpha 2000, Alpha HT, TH Series
	99.99%				Alpha Cell, Alpha 2000, Alpha HT, Dimple Pleat, TH Series
	99.9995%				Alpha Cell, Alpha 2000, Alpha HT, TH Series, Dimple Pleat
	99.99999%				TH Series, Dimple Pleat

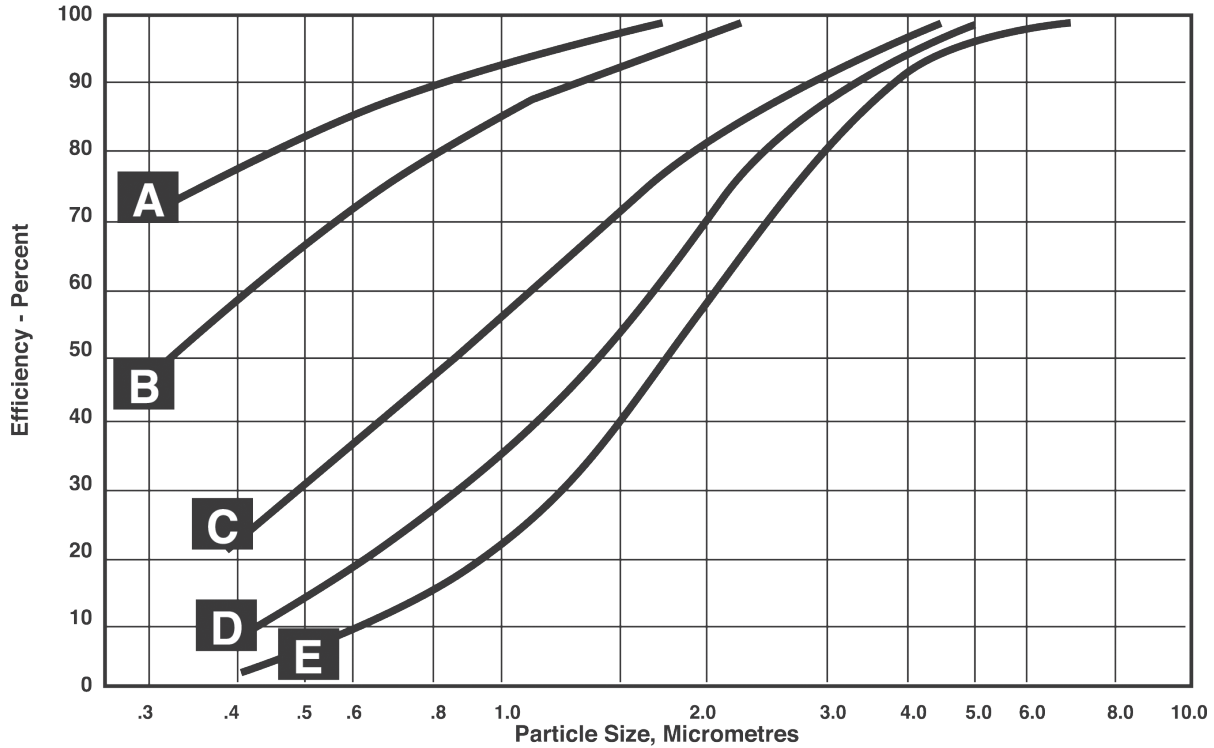
- (1) Arrestance and Dust Spot Efficiency ratings are based on the ASHRAE 52.1 - 1992 test method.
 (2) Minimum Efficiency Reporting Value (MERV) ratings are based on the ASHRAE 52.2 test method.
 (3) European Efficiency Classes are based on European Standards EN 779 and EN 1882.



Filter Efficiency

Cross Reference of Various Filter Efficiencies

Approximate Efficiency vs. Particle Size for Typical Air Filters



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|----------|-----------------------------|---|
| A | 90-95% Efficiency, MERV 14: | Superflow V, Rigid Air, Precisioncell, Precisioncell 2, Precision Pak |
| B | 80-85% Efficiency, MERV 13: | Superflow V, Rigid Air, Precisioncell, Precisioncell 2, Precision Pak |
| C | 60-65% Efficiency, MERV 11: | Superflow V, Rigid Air, Precisioncell, Precisioncell 2, Precision Pak, 62RM11 |
| D | 50-55% Efficiency, MERV 10: | Precision Pak |
| ■ | 40-45% Efficiency, MERV 9: | Rigid Air |
| ■ | 30% Efficiency, MERV 8: | PrePleat 40 |
| E | 25-30% Efficiency, MERV 7: | PrePleat 40 (Economy) |

Compiled and averaged from manufacturer's data. Efficiency per ASHRAE Standards 52 Test methods. Curves are approximations only for general guidance. Values from them must not be used to specify air filters, since a generally recognized test standard does not exist. Graphs from Equipment Handbook, Air Cleaners for Particulate Contaminants. Reprinted by permission of the American Society of Heating, Refrigerating and Air Conditioning engineers from the 1988 ASHRAE Handbook - Equipment.



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