

MERV Ratings Explained

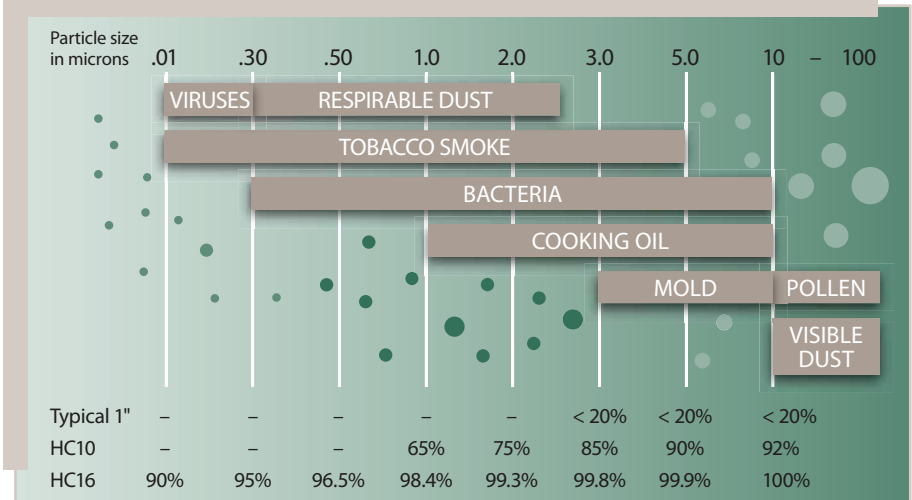


Health experts estimate that 35 million Americans suffer from upper respiratory tract symptoms that are allergic reactions to airborne allergens.

Source: National Institute of Health



AIR CLEANER REMOVAL AIR EFFICIENCIES



1 Micron = 1/25,000 of an inch

MERV	0.3 - 1 Microns	1-3 Microns	3-10 Microns	Examples	Typical Applications
1*	0%	0%	less than 20 %	1" Disposable Filters	Residential Home
2*	0%	0%	less than 20%	"	"
3*	0%	0%	less than 20%	"	"
4*	0%	0%	less than 20%	"	"
5*	0%	0%	20-25%	"	Industrial Workplaces
6*	0%	0%	35-50%	1" Low Quality Pleated Filter	"
7*	0%	0%	50-70%	"	"
8**	0%	0%	70%	Healthy Climate 1" Pleated Filter	Commercial Bldgs
9**	0%	less than 50%	85% or greater	"	"
10**	0%	50-65%	85% or greater	Healthy Climate MERV10 Filter Box	"
11**	0%	65-80%	85% or greater	"	"
12**	0%	80% or greater	90% or greater	"	"
13***	less than 75%	90% or greater	90% or greater	"	Smoking Lounges
14***	75-85%	90% or greater	90% or greater	"	"
15***	85-95%	90% or greater	90% or greater	"	"
16***	95%	95% or greater	95% or greater	Healthy Climate MERV16 Filter Box	General Surgery
16+***	99.97%	99.97% or greater	99.97% or greater	Healthy Climate HEPA By-Pass Filter	Operating Rooms
Examples	Tobacco Smoke, Dust, Viruses	Bacteria & Pet Dander	Pollen & Mold Spores		

*MERV 1-7 Residential Homes/Commercial Buildings/Industrial Factories to protect equipment from damage

**MERV 8-12 Residential Homes/ Commercial Buildings to protect equipment efficiency

***MERV 13-16 Residential Homes/Commercial Buildings/Health Care Facilities to protect people.

