

# ASTRO-PLEAT™



## STANDARD PLEATED FILTERS

# MERV13

### BEST



### FILTER LIFE

UP TO **90 DAYS**



POLLEN



DANDER



DUST



MITES



MOLD



SMOG



ODOR



SMOKE



BACTERIA



ALLERGENS



## FEATURES AND BENEFITS

Air Filters Incorporated's **Astro-Pleat™** pleated filters are manufactured using a MERV 8, 11, or 13 rated filter media that effectively reduces and traps pollen, mold, dust, pet dander and dust mites from circulating throughout your home or business. Using an **Astro-Pleat™** filter to capture common airborne contaminants can help alleviate allergies and sinus irritations that can cause watery eyes, itchy throat, coughing and sneezing. Additional benefits from using the **Astro-Pleat™** air filter include extending the life of your air conditioning/ furnace system by removing dirt and dust so the HVAC unit isn't strained from air flow restriction.

## APPLICATIONS

- Commercial Buildings
- Residential
- Hospitals
- Schools and Universities
- Food Processing
- Pharmaceutical Industry
- Shooting Ranges
- Industrial
- Manufacturing

## CONSTRUCTION

- Made with premium synthetic fiber media that has a high dust holding capacity and filtering efficiency. Available in MERV 8, 11, or 13
- The synthetic filter media is reinforced with expanded metal backing to prevent media from sagging during use.
- Astro-Pleat's frame uses a die cut made from heavy duty beverage board to ensure filter integrity in high moisture applications.
- The filter media is internally glued to the filter frame to prevent contaminants from bypassing the media and recirculating in the air.
- When used as a pre-filter (stage 1), Astro-Pleat helps prolong the life of your mid and final stage filters
- Available in Standard and High Capacity
- UL 900 Approved



[AirFilterUSA.com](http://AirFilterUSA.com)



800 667 8563

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		High Capacity				Media Area Sq Ft	Wt. Each (lbs.)	
	Nominal Size HxWxD (In.)	Actual Size HxWxD (In.)	300 FPM		500 FPM			
			CFM	PD	CFM			PD
1 - Inch Depth	12x24x1	11-1/2" X 23-1/2" X 3/4"	600	0.27	1000	0.45	3.96	0.4
	16x20x1	15-1/2" X 19-1/2" X 3/4"	670	0.27	1120	0.45	4.32	0.4
	16x25x1	15-1/2" X 24-1/2" X 3/4"	840	0.27	1400	0.45	5.41	0.5
	18x24x1	17-1/2" X 23-1/2" X 3/4"	900	0.27	1500	0.45	5.94	0.6
	20x20x1	19-1/2" X 19-1/2" X 3/4"	840	0.27	1400	0.45	5.55	0.6
	20x24x1	19-1/2" X 23-1/2" X 3/4"	1000	0.27	1667	0.45	6.68	0.6
	20x25x1	19-1/2" X 24-1/2" X 3/4"	1050	0.27	1750	0.45	6.96	0.7
	24x24x1	23-1/2" X 23-1/2" X 3/4"	1200	0.27	2000	0.45	7.92	0.7
2 - Inch Depth	12x24x2	11-3/8" X 23-3/8" X 1-3/4"	600	.18	1000	.36	8.66	1.2
	16x20x2	15-1/2" X 19-1/2" X 1-3/4"	670	.18	1120	.36	9.60	1.2
	16x25x2	15-1/2" X 24-1/2" X 1-3/4"	840	.18	1400	.36	12.03	1.4
	18x24x2	17-3/8" X 23-3/8" X 1-3/4"	900	.18	1500	.36	13.28	1.6
	20x20x2	19-1/2" X 19-1/2" X 1-3/4"	840	.18	1400	.36	12.00	1.4
	20x24x2	19-3/8" X 23-3/8" X 1-3/4"	1000	.18	1667	.36	14.43	1.8
	20x25x2	19-1/2" X 24-1/2" X 1-3/4"	1050	.18	1750	.36	15.04	1.8
	24x24x2	23-3/8" X 23-3/8" X 1-3/4"	1200	.18	2000	.36	17.61	2.0
4 - Inch Depth	12x24x4	11-3/8" X 23-3/8" X 3-3/4"	600	.14	1000	.31	13.61	2.0
	16x20x4	15-1/2" X 19-1/2" X 3-3/4"	670	.14	1120	.31	15.43	2.0
	16x25x4	15-1/2" X 24-1/2" X 3-3/4"	840	.14	1400	.31	19.34	2.6
	18x24x4	17-3/8" X 23-3/8" X 3-3/4"	900	.14	1500	.31	21.03	2.8
	20x20x4	19-1/2" X 19-1/2" X 3-3/4"	840	.14	1400	.31	18.52	2.6
	20x24x4	19-3/8" X 23-3/8" X 3-3/4"	1000	.14	1667	.31	22.27	3.0
	20x25x4	19-1/2" X 24-1/2" X 3-3/4"	1050	.14	1750	.31	23.20	3.2
	24x24x4	23-3/8" X 23-3/8" X 3-3/4"	1200	.14	2000	.31	27.21	3.6



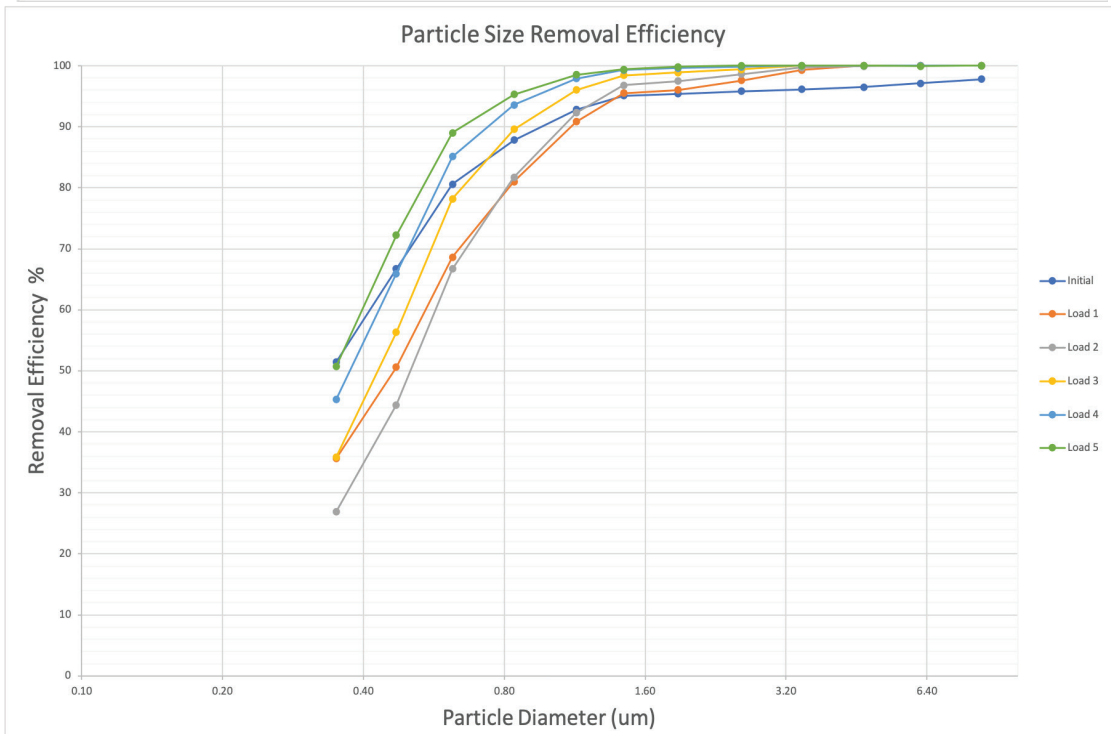
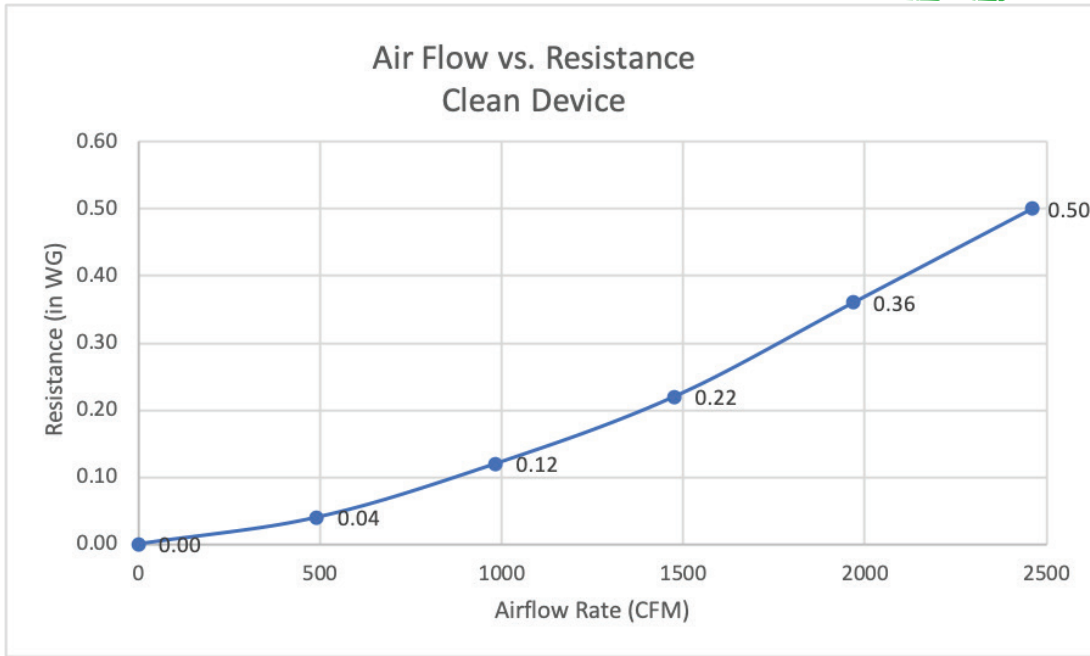
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## Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diameter (um)	Particle Removal Efficiency (%)						
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5
0.30 - 0.40	0.35	26.9	51.4	35.6	26.9	35.8	45.3	50.7
0.40 - 0.55	0.47	44.4	66.7	50.6	44.4	56.3	65.9	72.2
0.55 - 0.70	0.62	66.7	80.6	68.6	66.7	78.2	85.1	89.0
0.70 - 1.00	0.84	81.0	87.8	81.0	81.7	89.6	93.6	95.3
1.00 - 1.30	1.14	90.8	92.8	90.8	92.3	96.0	97.9	98.5
1.30 - 1.60	1.44	95.1	95.1	95.5	96.8	98.4	99.3	99.4
1.60 - 2.20	1.88	95.4	95.4	96.0	97.5	98.9	99.6	99.8
2.20 - 3.00	2.57	95.8	95.8	97.6	98.6	99.4	99.8	100.0
3.00 - 4.00	3.46	96.1	96.1	99.3	99.7	100.0	100.0	100.0
4.00 - 5.50	4.69	96.5	96.5	100.0	99.9	100.0	100.0	100.0
5.50 - 7.00	6.20	97.1	97.1	100.0	100.0	100.0	100.0	99.9
7.00 - 10.00	8.37	97.8	97.8	100.0	100.0	100.0	100.0	100.0
Resistance after Dust Load (in WG) --->				0.40	0.65	0.93	1.22	1.50
Dust Load (gms) ----->				5	45	75	95	108

Initial Resistance	
Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.04
984	0.12
1476	0.22
1968	0.36
2460	0.50



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