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Date: 27-Nov-23

TEST NO. 23-607-1

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	True Filtration, LLC
Filter Model	24" x 24" x 2" Merv 8 Pleated Air Filter
Part Number	TF8PS24242
Generic Filter Type	Pleated Filter
Nominal Dimensions (H x W x D)	24" x 24" x 2"
Pocket / Pleat Quantity	24 Pleats
Media Type	Merv 8
Est. Gross Media Area	16 Ft ²
Adhesive Type	N/A



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	69
Barometric Pressure (In. Hg.)	29.64	Relative Humidity (%)	40

Test Results

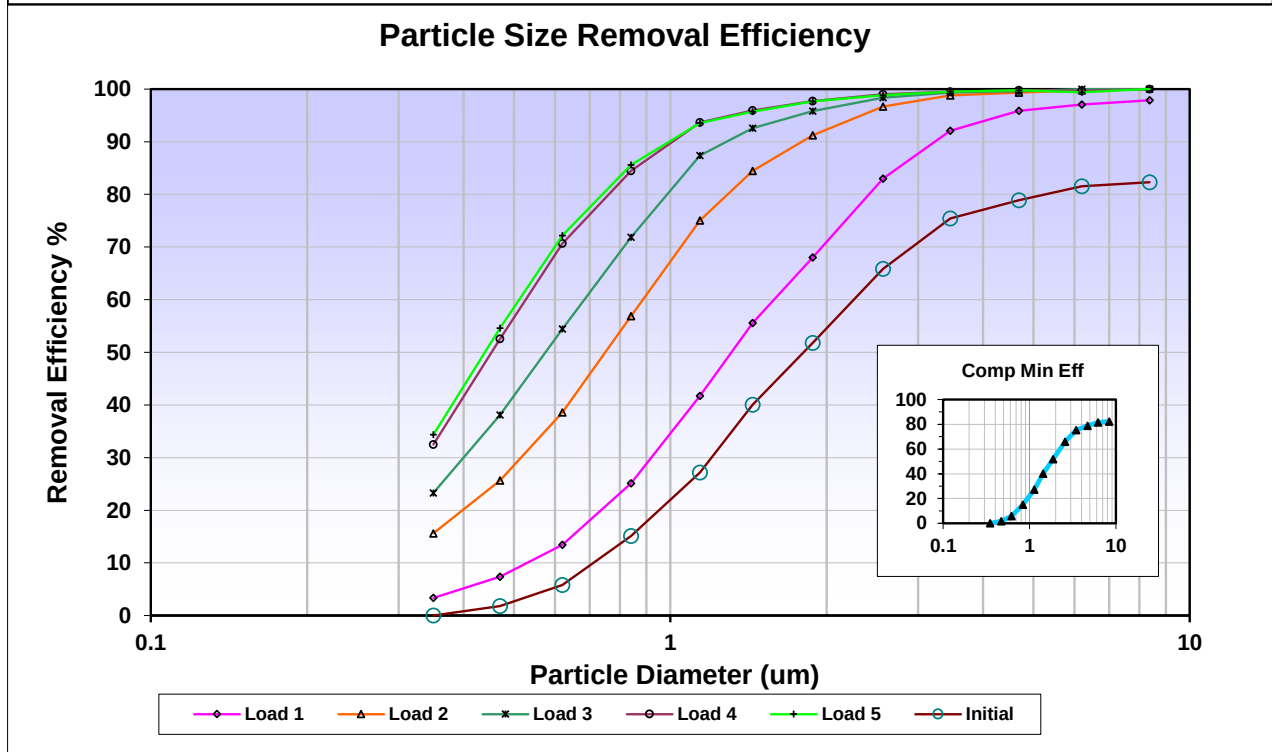
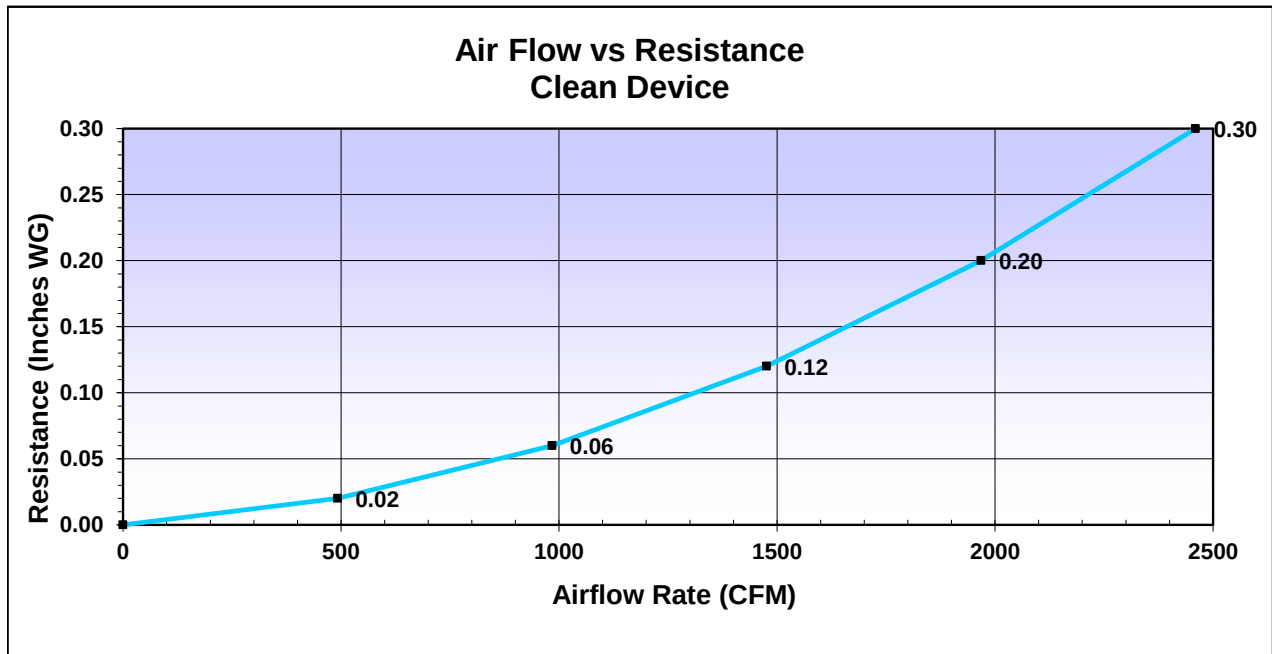
Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.20
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	112
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	6
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	46
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	80
Minimum Efficiency Reporting Value (MERV)	MERV 9 @ 1968 CFM

Remarks

Comments Tested For: True Filtration
Final Pressure Drop ("w.c.) 1.50" w.c.
Dust Holding Capacity (gms) 97
Average Arrestance (%) 86.6

Lab Technician

Performing Test: E Stucker Approved By: T Shoulders Test Completed: 27-Nov-23



Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.02
984	0.06
1476	0.12
1968	0.20
2460	0.30

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)							
		0.0	0.0	3.3	15.6	23.3	32.5	34.4	
0.30 - 0.40	0.35	0.0	0.0	3.3	15.6	23.3	32.5	34.4	
0.40 - 0.55	0.47	1.8	1.8	7.4	25.6	38.1	52.5	54.6	
0.55 - 0.70	0.62	5.8	5.8	13.4	38.6	54.4	70.7	72.2	
0.70 - 1.00	0.84	15.1	15.1	25.1	56.9	71.8	84.5	85.6	
1.00 - 1.30	1.14	27.2	27.2	41.7	75.1	87.4	93.7	93.6	
1.30 - 1.60	1.44	40.1	40.1	55.6	84.4	92.6	95.9	95.7	
1.60 - 2.20	1.88	51.8	51.8	68.0	91.2	95.8	97.7	97.7	
2.20 - 3.00	2.57	65.8	65.8	83.0	96.7	98.4	99.0	98.9	
3.00 - 4.00	3.46	75.4	75.4	92.1	98.8	99.4	99.5	99.5	
4.00 - 5.50	4.69	78.9	78.9	95.9	99.3	99.6	99.8	99.8	
5.50 - 7.00	6.20	81.5	81.5	97.1	99.8	100.0	99.7	99.4	
7.00 - 10.00	8.37	82.3	82.3	97.9	100.0	100.0	100.0	100.0	
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
Resistance after Dust Load (in w.c.) ----->				0.24	0.53	0.85	1.18	1.50	
Dust Load (gms) ----->				8	58	84	102	112	

Test Data for Release Rate (%)						
Size Range	Geometric Mean of Particle Size Range, µm	Release Rate After Loading	Release Rate After Loading	Release Rate After Loading	Release Rate After Loading	Release Rate After Loading
No.		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
1	0.35	0.010	0.017	0.155	0.053	0.069
2	0.47	0.007	0.011	0.167	0.055	0.060
3	0.62	0.004	0.008	0.159	0.033	0.033
4	0.84	0.004	0.008	0.105	0.026	0.029
5	1.14	0.004	0.014	0.100	0.041	0.047
6	1.44	0.005	0.013	0.059	0.029	0.059
7	1.88	0.009	0.009	0.087	0.047	0.059
8	2.57	0.018	0.025	0.122	0.094	0.122
9	3.46	0.000	0.043	0.290	0.244	0.306
10	4.69	0.061	0.113	0.383	0.500	0.521
11	6.2	0.100	0.395	1.461	0.680	0.668
12	8.37	0.292	0.563	1.289	1.607	1.118