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Date: 14-Nov-17 TEST NO.17-621-1A

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	Viskon-Aire Corp.
Filter Model	4 V-Cell MERV 11
Part Number	MV-F6-03
Generic Filter Type	12" V-Cell
Nominal Dimensions (H x W x D)	24" x 24" x 12"
Pocket / Pleat Quantity	8 Packs
Media Type	Microglass Media
Est. Gross Media Area	200.0 Ft ²
Adhesive Type	Polyurethane




Test Conditions

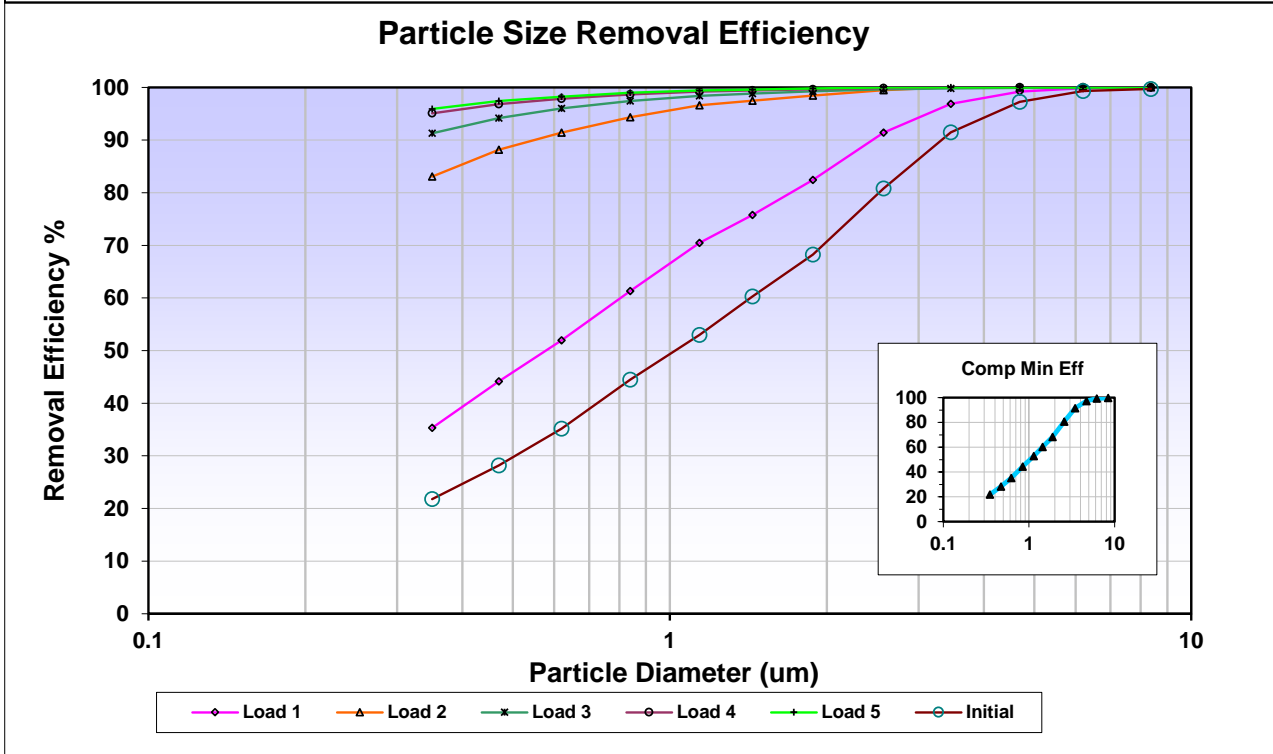
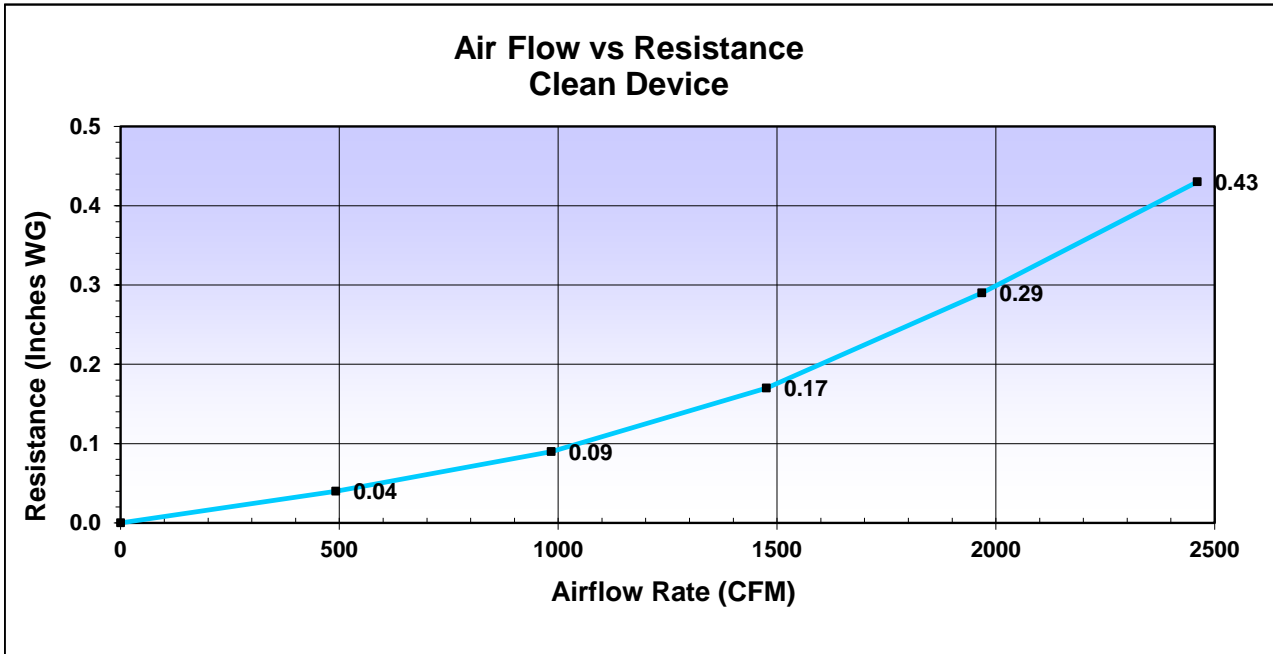
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	70
Barometric Pressure (In. Hg.)	29.81	Relative Humidity (%)	35

Test Results

Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.29
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	529
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	32
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	66
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	97
Minimum Efficiency Reporting Value (MERV)	MERV 11 @ 1968 CFM

Comments Tested For: Visikon-Aire Corp.
 Final Pressure Drop ("w.c.) 1.50"w.c.
 Dust Holding Capacity (gms) 518
 Average Arrestance (%) 97.9

Test Performed by: JPS Approved By:  Test Completed: 14-Nov-17



Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.04
984	0.09
1476	0.17
1968	0.29
2460	0.43

Data - Particle Removal Efficiency

Particle Size Range (µm)	Geometric Mean Diam (µm)	Particle Removal Efficiency (%)							
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
0.30 - 0.40	0.35	21.8	21.8	35.3	83.1	91.3	95.1	95.9	
0.40 - 0.55	0.47	28.2	28.2	44.2	88.2	94.2	96.8	97.4	
0.55 - 0.70	0.62	35.2	35.2	51.9	91.4	96.0	97.8	98.3	
0.70 - 1.00	0.84	44.5	44.5	61.3	94.4	97.4	98.7	99.0	
1.00 - 1.30	1.14	53.0	53.0	70.5	96.6	98.4	99.2	99.4	
1.30 - 1.60	1.44	60.3	60.3	75.8	97.5	98.8	99.4	99.6	
1.60 - 2.20	1.88	68.2	68.2	82.4	98.5	99.2	99.7	99.8	
2.20 - 3.00	2.57	80.8	80.8	91.4	99.5	99.7	99.9	100.0	
3.00 - 4.00	3.46	91.5	91.5	96.9	100.0	99.8	100.0	100.0	
4.00 - 5.50	4.69	97.3	97.3	99.2	100.0	99.9	100.0	100.0	
5.50 - 7.00	6.20	99.3	99.3	99.9	100.0	99.9	100.0	100.0	
7.00 - 10.00	8.37	99.7	99.7	100.0	100.0	100.0	100.0	100.0	
Resistance after Dust Load (in w.c.) ----->				0.29	0.59	0.90	1.20	1.50	
Dust Load (gms) ----->				0	262	362	462	529	

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.	µm	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
1	0.35	0.454	0.152	0.035	0.035	0.077
2	0.47	0.243	0.059	0.013	0.023	0.092
3	0.62	0.109	0.038	0.009	0.012	0.064
4	0.84	0.064	0.033	0.005	0.023	0.079
5	1.14	0.057	0.069	0.020	0.070	0.210
6	1.44	0.020	0.071	0.011	0.066	0.194
7	1.88	0.030	0.094	0.016	0.091	0.279
8	2.57	0.014	0.173	0.036	0.135	0.497
9	3.46	0.015	0.385	0.033	0.233	0.743
10	4.69	0.029	0.465	0.064	0.346	1.088
11	6.2	0.127	0.622	0.055	0.436	1.064
12	8.37	0.109	0.785	0.091	0.622	0.769