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Date: 28-Sep-17 TEST NO. 17-546-1

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	Viskon-Aire Corp
Filter Model	Series 152
Part Number	152-2424
Generic Filter Type	Panel
Nominal Dimensions (H x W x D)	24" x 24" x 0.5"
Pocket / Pleat Quantity	N/A
Media Type	Polyester
Est. Gross Media Area	4.0 Ft ²
Adhesive Type	N/A



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	73
Barometric Pressure (In. Hg.)	29.33	Relative Humidity (%)	39

Test Results

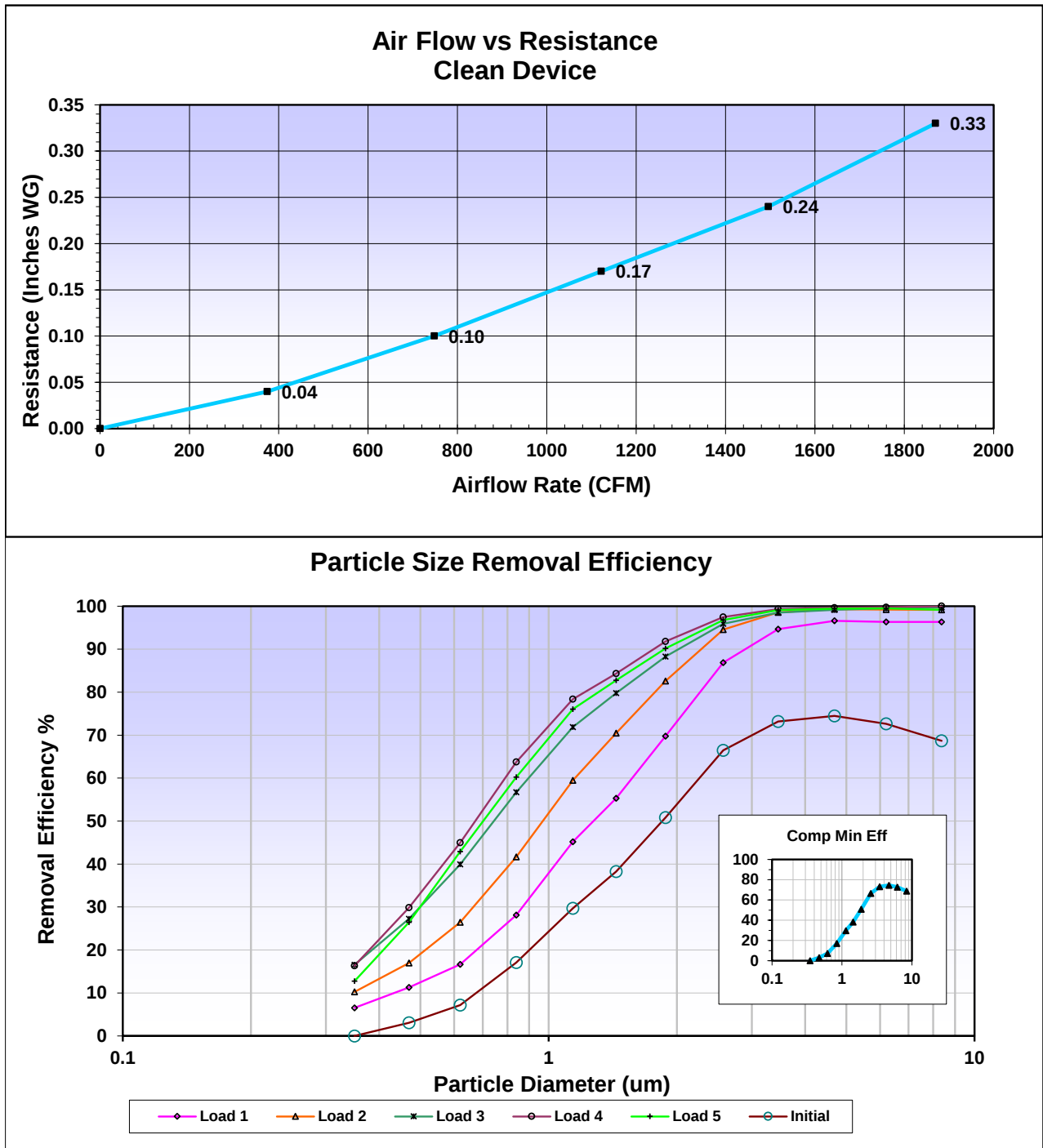
Airflow Rate (CFM)	1496
Nominal Face Velocity (fpm)	374
Initial Resistance (in WG)	0.24
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	230
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	7
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	46
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	72
Minimum Efficiency Reporting Value (MERV)	MERV 8 @ 1496 CFM

Comments Tested For: Viskon-Aire Corp
Final Pressure Drop ("w.c.) 1.50"w.c.
Dust Holding Capacity (gms) 204
Average Arrestance (%) 88.7

Test Performed by: JPS

Approved By:

Test Completed: 28-Sep-17



Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
374	0.04
748	0.10
1122	0.17
1496	0.24
1870	0.33

Data - Particle Removal Efficiency

Particle Size Range (µm)	Geometric Mean Diam (µm)	Particle Removal Efficiency (%)				
		0.0	0.0	6.5	10.2	16.6
0.30 - 0.40	0.35	0.0	0.0	6.5	10.2	16.6
0.40 - 0.55	0.47	3.1	3.1	11.3	17.0	27.3
0.55 - 0.70	0.62	7.2	7.2	16.6	26.4	39.9
0.70 - 1.00	0.84	17.1	17.1	28.1	41.7	56.7
1.00 - 1.30	1.14	29.7	29.7	45.2	59.5	71.9
1.30 - 1.60	1.44	38.2	38.2	55.3	70.5	79.8
1.60 - 2.20	1.88	50.8	50.8	69.7	82.6	88.3
2.20 - 3.00	2.57	66.5	66.5	86.9	94.6	95.9
3.00 - 4.00	3.46	73.2	73.2	94.7	98.5	98.5
4.00 - 5.50	4.69	74.5	74.5	96.6	99.3	99.2
5.50 - 7.00	6.20	72.6	72.6	96.3	99.2	99.5
7.00 - 10.00	8.37	68.7	68.7	96.4	99.1	99.7
		CME	Initial	Load 1	Load 2	Load 3
Resistance after Dust Load (in w.c.) ----->				0.28	0.56	0.87
Dust Load (gms) ----->				9	69	142
						189
						230

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	0.172	0.449	0.222	2.827	0.148
2	0.47	0.040	0.098	0.062	2.577	0.124
3	0.62	0.020	0.029	0.048	1.780	0.091
4	0.84	0.014	0.023	0.073	1.456	0.116
5	1.14	0.006	0.024	0.105	0.927	0.092
6	1.44	0.006	0.035	0.092	0.755	0.112
7	1.88	0.007	0.020	0.172	0.720	0.094
8	2.57	0.007	0.058	0.336	1.171	0.168
9	3.46	0.009	0.122	0.787	2.614	0.414
10	4.69	0.015	0.276	1.575	4.225	0.690
11	6.2	0.000	0.463	2.557	5.556	1.130
12	8.37	0.218	0.479	2.159	3.386	0.785