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Date: 28-Sep-17 TEST NO. 17-546-2

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	Viskon-Aire Corp
Filter Model	Series 153
Part Number	153-2424
Generic Filter Type	Panel
Nominal Dimensions (H x W x D)	24" x 24" x 1"
Pocket / Pleat Quantity	N/A
Media Type	Polyester
Est. Gross Media Area	4.0 Ft ²
Adhesive Type	Dry Tack



Test Conditions

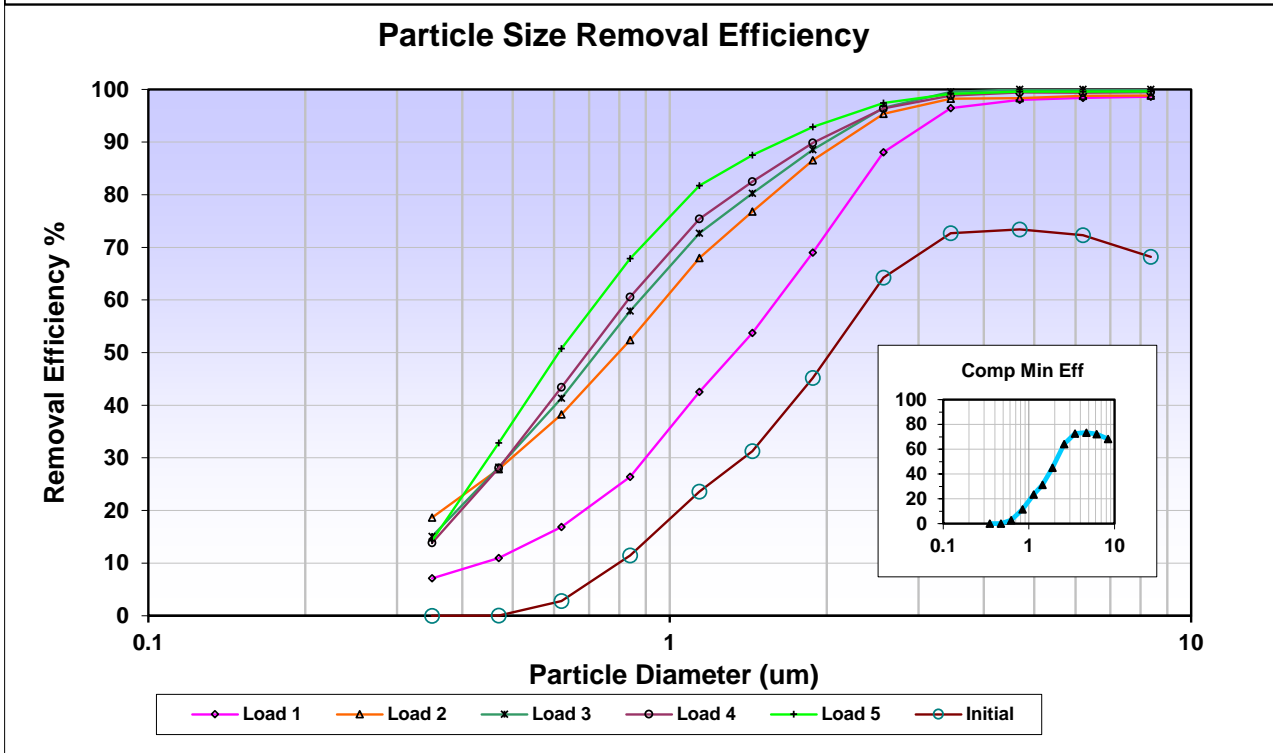
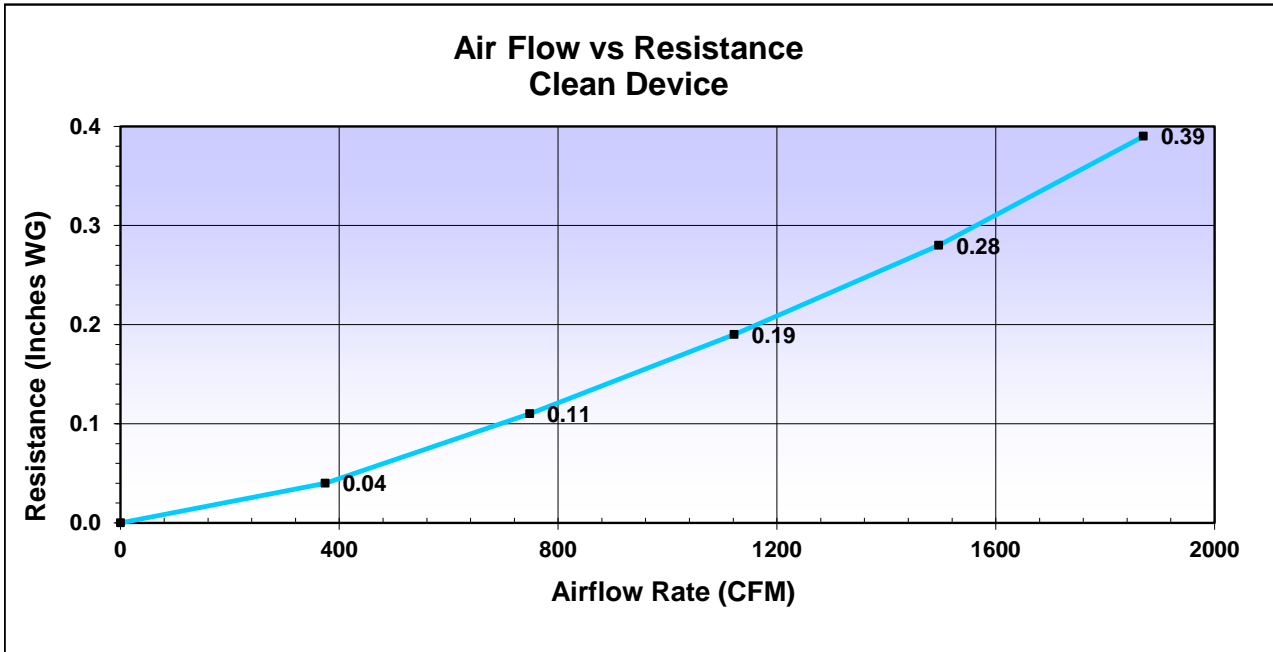
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	73
Barometric Pressure (In. Hg.)	29.36	Relative Humidity (%)	37

Test Results

Airflow Rate (CFM)	1496
Nominal Face Velocity (fpm)	374
Initial Resistance (in WG)	0.28
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	305
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	4
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	41
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) 279
 Average Arrestance (%) 91.4

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	0.11
1122	0.19
1496	0.28
1870	0.39

Data - Particle Removal Efficiency

Particle Size Range (µm)	Geometric Mean Diam (µm)	Particle Removal Efficiency (%)							
		CME	Initial	Load 1	Load 2	Load 3			
0.30 - 0.40	0.35	0.0	0.0	7.1	18.6	15.1	13.8	14.3	
0.40 - 0.55	0.47	0.0	0.0	11.0	27.9	28.2	28.1	32.9	
0.55 - 0.70	0.62	2.8	2.8	16.9	38.3	41.3	43.4	50.7	
0.70 - 1.00	0.84	11.5	11.5	26.4	52.4	57.9	60.6	67.9	
1.00 - 1.30	1.14	23.6	23.6	42.5	68.0	72.7	75.4	81.7	
1.30 - 1.60	1.44	31.3	31.3	53.7	76.8	80.3	82.5	87.5	
1.60 - 2.20	1.88	45.2	45.2	69.0	86.5	88.6	89.9	92.9	
2.20 - 3.00	2.57	64.2	64.2	88.1	95.4	96.5	96.4	97.4	
3.00 - 4.00	3.46	72.7	72.7	96.4	98.2	99.5	98.8	99.2	
4.00 - 5.50	4.69	73.4	73.4	98.0	98.3	100.0	99.4	99.6	
5.50 - 7.00	6.20	72.3	72.3	98.4	98.8	100.0	99.4	99.6	
7.00 - 10.00	8.37	68.2	68.2	98.6	98.8	100.0	99.5	99.6	
				Resistance after Dust Load (in w.c.) ----->	0.32	0.59	0.89	1.20	1.50
				Dust Load (gms) ----->	10	140	213	273	305

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	0.383	0.562	0.126	0.033	0.035
2	0.47	0.081	0.142	0.138	0.018	0.019
3	0.62	0.027	0.063	0.131	0.016	0.012
4	0.84	0.009	0.043	0.223	0.021	0.015
5	1.14	0.008	0.069	0.283	0.020	0.014
6	1.44	0.022	0.096	0.286	0.017	0.033
7	1.88	0.006	0.094	0.361	0.031	0.016
8	2.57	0.015	0.238	0.627	0.053	0.053
9	3.46	0.030	0.365	1.100	0.138	0.112
10	4.69	0.022	0.598	1.870	0.207	0.193
11	6.2	0.073	1.391	2.410	0.459	0.327
12	8.37	0.153	1.007	2.099	0.453	0.400