



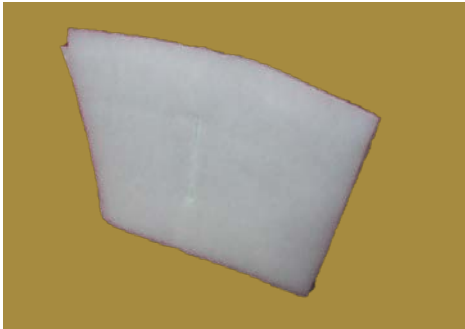
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Date: 18-Jan-18 TEST NO.17-719-1C

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	Viskon-Aire Corp.
Filter Model	Series 154
Part Number	154-2424
Generic Filter Type	Panel
Nominal Dimensions (H x W x D)	24" x 24" x 1.5"
Pocket / Pleat Quantity	N/A
Media Type	Synthetic
Est. Gross Media Area	4.0 Ft ²
Adhesive Type	Tack



Test Conditions

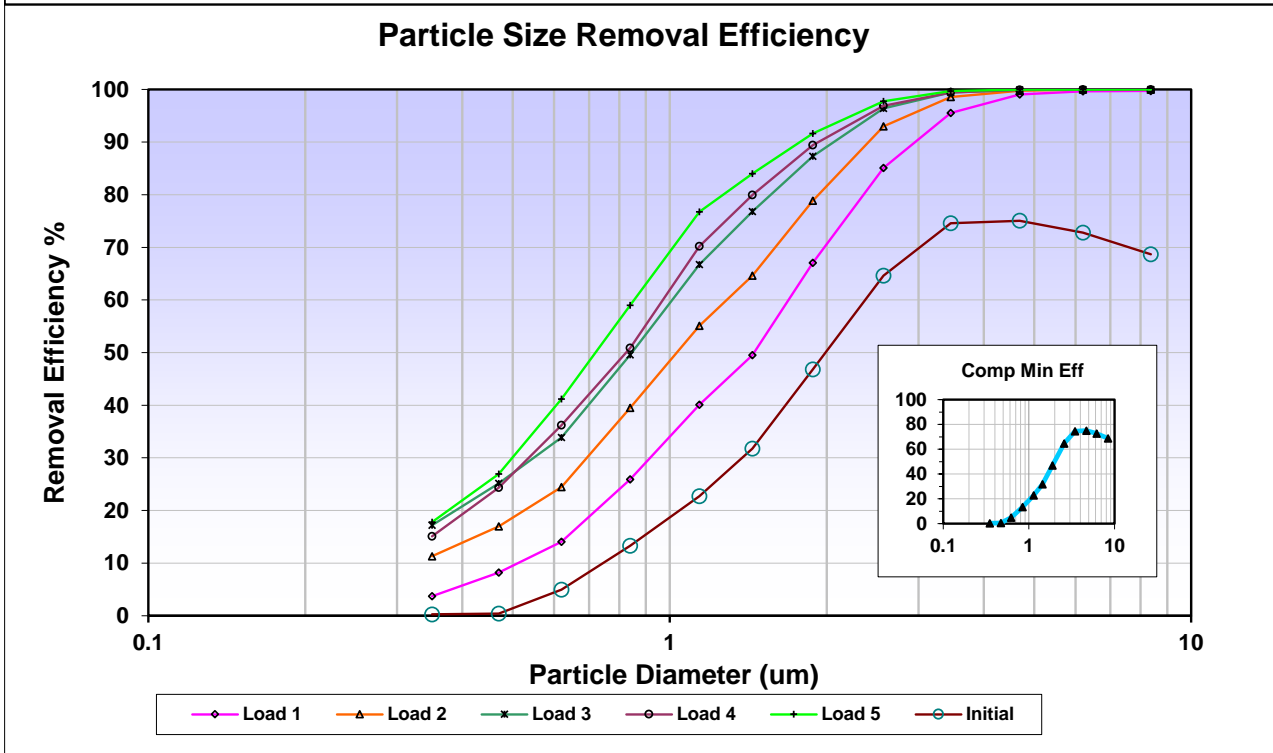
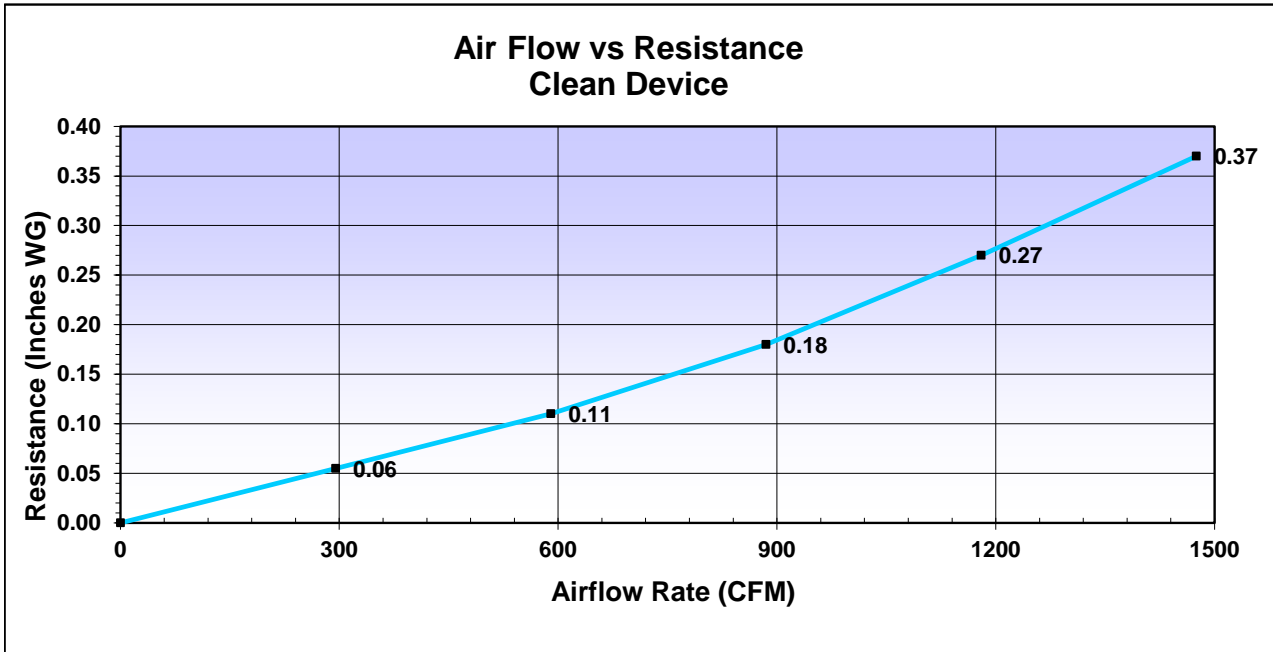
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	70
Barometric Pressure (In. Hg.)	29.41	Relative Humidity (%)	37

Test Results

Airflow Rate (CFM)	1180
Nominal Face Velocity (fpm)	295
Initial Resistance (in WG)	0.27
Final Resistance (in WG)	1.00
Dust Fed (gms) to Final Resistance	226
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	5
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	41
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	73
Minimum Efficiency Reporting Value (MERV)	MERV 8 @ 1180 CFM

Comments Tested For: Visikon-Aire Corp.
 Final Pressure Drop ("w.c.) 1.00"w.c.
 Dust Holding Capacity (gms) 211
 Average Arrestance (%) 93.4

Test Performed by: JPS **Approved By:**  **Test Completed:** 18-Jan-18



Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
295	0.06
590	0.11
885	0.18
1180	0.27
1475	0.37

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)							
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
0.30 - 0.40	0.35	0.3	0.3	3.7	11.3	17.2	15.1	17.8	
0.40 - 0.55	0.47	0.4	0.4	8.2	17.0	25.2	24.3	26.9	
0.55 - 0.70	0.62	4.9	4.9	14.1	24.5	33.9	36.2	41.2	
0.70 - 1.00	0.84	13.3	13.3	25.9	39.5	49.6	50.9	59.0	
1.00 - 1.30	1.14	22.7	22.7	40.1	55.1	66.7	70.2	76.8	
1.30 - 1.60	1.44	31.7	31.7	49.5	64.6	76.8	79.9	84.0	
1.60 - 2.20	1.88	46.8	46.8	67.0	78.9	87.3	89.4	91.7	
2.20 - 3.00	2.57	64.6	64.6	85.1	93.0	96.4	96.9	97.8	
3.00 - 4.00	3.46	74.6	74.6	95.5	98.5	99.4	99.4	99.7	
4.00 - 5.50	4.69	75.0	75.0	99.1	99.8	99.9	99.9	100.0	
5.50 - 7.00	6.20	72.8	72.8	99.6	100.0	100.0	100.0	100.0	
7.00 - 10.00	8.37	68.7	68.7	99.7	100.0	100.0	100.0	100.0	
Resistance after Dust Load (in w.c.) ----->				0.31	0.45	0.64	0.82	1.00	
Dust Load (gms) ----->				11	45	103	158	226	

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	0.005	0.009	0.011	0.006	0.006
2	0.47	0.005	0.005	0.005	0.004	0.006
3	0.62	0.002	0.005	0.004	0.002	0.002
4	0.84	0.001	0.002	0.002	0.002	0.002
5	1.14	0.003	0.007	0.003	0.000	0.003
6	1.44	0.000	0.000	0.000	0.005	0.000
7	1.88	0.000	0.003	0.002	0.004	0.002
8	2.57	0.000	0.005	0.005	0.005	0.012
9	3.46	0.000	0.000	0.004	0.007	0.024
10	4.69	0.000	0.009	0.000	0.000	0.019
11	6.2	0.000	0.000	0.034	0.000	0.030
12	8.37	0.000	0.031	0.000	0.034	0.046