



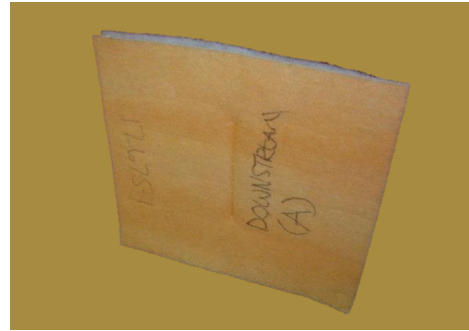
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Date: 7-Dec-17 TEST NO.17-675-5A

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	Viskon-Aire Corp.
Filter Model	MERV 10 Panel
Part Number	10-2424
Generic Filter Type	Ring Panel
Nominal Dimensions (H x W x D)	24" x 24" x 1.5"
Pocket / Pleat Quantity	Flat
Media Type	Synthetic
Est. Gross Media Area	4 Ft ²
Adhesive Type	Dry Tack



Test Conditions

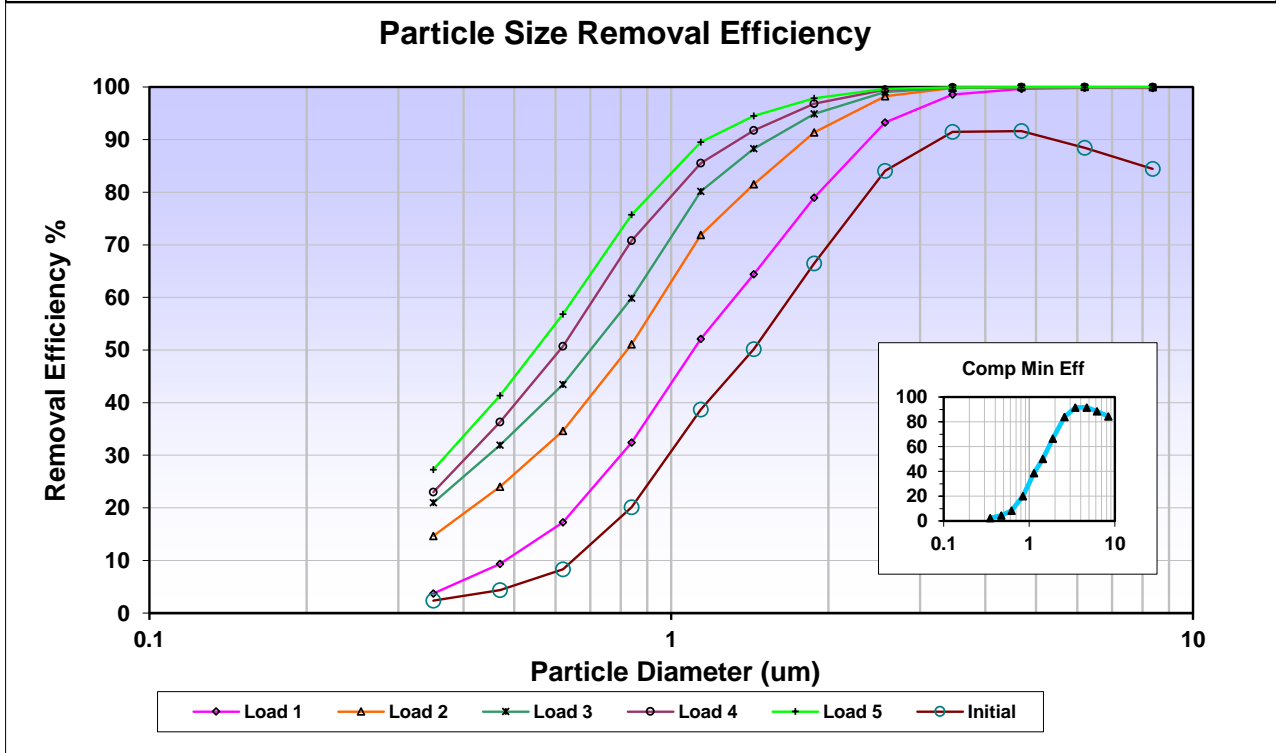
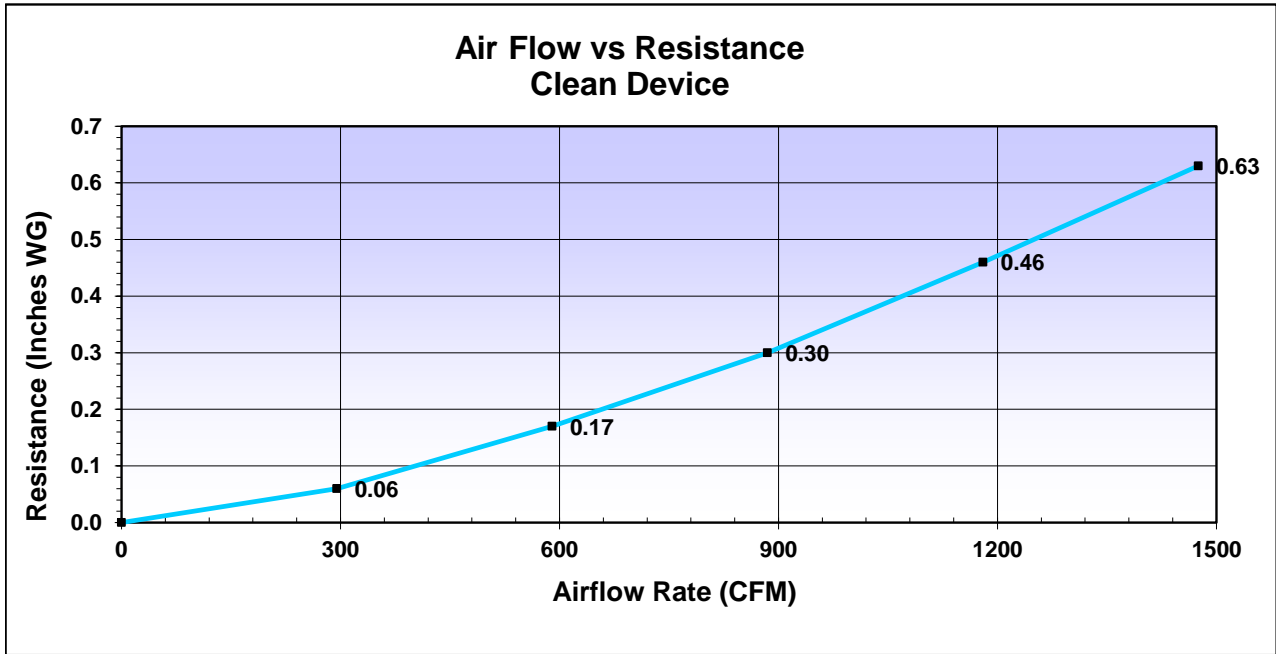
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	71
Barometric Pressure (In. Hg.)	29.49	Relative Humidity (%)	44

Test Results

Airflow Rate (CFM)	1180
Nominal Face Velocity (fpm)	295
Initial Resistance (in WG)	0.46
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	168
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	9
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	60
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	89
Minimum Efficiency Reporting Value (MERV)	MERV 10 @ 1180 CFM

Comments Tested For: Visikon-Aire Corp.
 Final Pressure Drop ("w.c.) 1.50"w.c.
 Dust Holding Capacity (gms) 159
 Average Arrestance (%) 94.5

Test Performed by: JPS **Approved By:**  **Test Completed:** 7-Dec-17



Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
295	0.06
590	0.17
885	0.30
1180	0.46
1475	0.63

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)							
		2.4	4.4	8.3	17.2	34.6	51.1	80.1	100.0
0.30 - 0.40	0.35	2.4	2.4	3.7	14.7	21.0	23.0	27.3	
0.40 - 0.55	0.47	4.4	4.4	9.4	24.0	31.9	36.3	41.3	
0.55 - 0.70	0.62	8.3	8.3	17.2	34.6	43.5	50.7	56.8	
0.70 - 1.00	0.84	20.1	20.1	32.4	51.1	59.9	70.8	75.7	
1.00 - 1.30	1.14	38.7	38.7	52.1	71.9	80.1	85.5	89.5	
1.30 - 1.60	1.44	50.1	50.1	64.4	81.5	88.3	91.7	94.5	
1.60 - 2.20	1.88	66.5	66.5	79.0	91.3	94.9	96.8	97.9	
2.20 - 3.00	2.57	84.0	84.0	93.3	98.2	99.1	99.5	99.6	
3.00 - 4.00	3.46	91.5	91.5	98.5	99.8	99.9	99.9	99.9	
4.00 - 5.50	4.69	91.6	91.6	99.6	100.0	100.0	99.9	100.0	
5.50 - 7.00	6.20	88.4	88.4	99.8	100.0	100.0	100.0	100.0	
7.00 - 10.00	8.37	84.4	84.4	99.8	100.0	100.0	100.0	100.0	
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
				0.50	0.72	0.98	1.24	1.50	
				4	42	82	132	168	

Resistance after Dust Load (in w.c.) ----->
 Dust Load (gms) ----->

Test Data for Release Rate (%)						
Size Range No.	Geometric Mean of Particle Size Range, μm	Release Rate After Loading Stage 1	Release Rate After Loading Stage 2	Release Rate After Loading Stage 3	Release Rate After Loading Stage 4	Release Rate After Loading Stage 5
1	0.35	0.045	0.036	0.037	0.058	0.063
2	0.47	0.050	0.040	0.036	0.055	0.063
3	0.62	0.039	0.028	0.033	0.039	0.033
4	0.84	0.027	0.024	0.021	0.022	0.026
5	1.14	0.033	0.016	0.013	0.025	0.018
6	1.44	0.017	0.014	0.007	0.013	0.011
7	1.88	0.013	0.002	0.003	0.008	0.008
8	2.57	0.004	0.000	0.001	0.007	0.007
9	3.46	0.004	0.003	0.002	0.012	0.015
10	4.69	0.007	0.000	0.011	0.004	0.011
11	6.2	0.000	0.000	0.000	0.000	0.036
12	8.37	0.000	0.000	0.000	0.047	0.035