



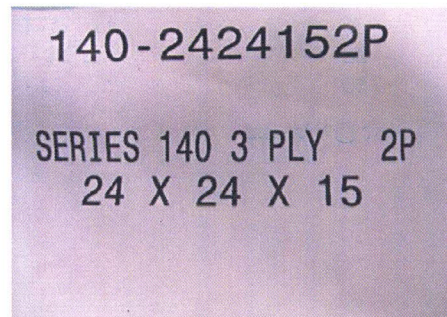
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Date: 16-Oct-17 TEST NO. 17-546-5

Test Report ANSI/ASHRAE Standard 52.2-2017

Filter Description

Manufacturer	Viskon-Aire Corp
Filter Model	Series 140
Part Number	140-2424152P
Generic Filter Type	Pocket
Nominal Dimensions (H x W x D)	24" x 24" x 15"
Pocket / Pleat Quantity	2 Pockets
Media Type	Polyester
Est. Gross Media Area	Standard
Adhesive Type	Tack



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	74
Barometric Pressure (In. Hg.)	29.34	Relative Humidity (%)	52

Test Results

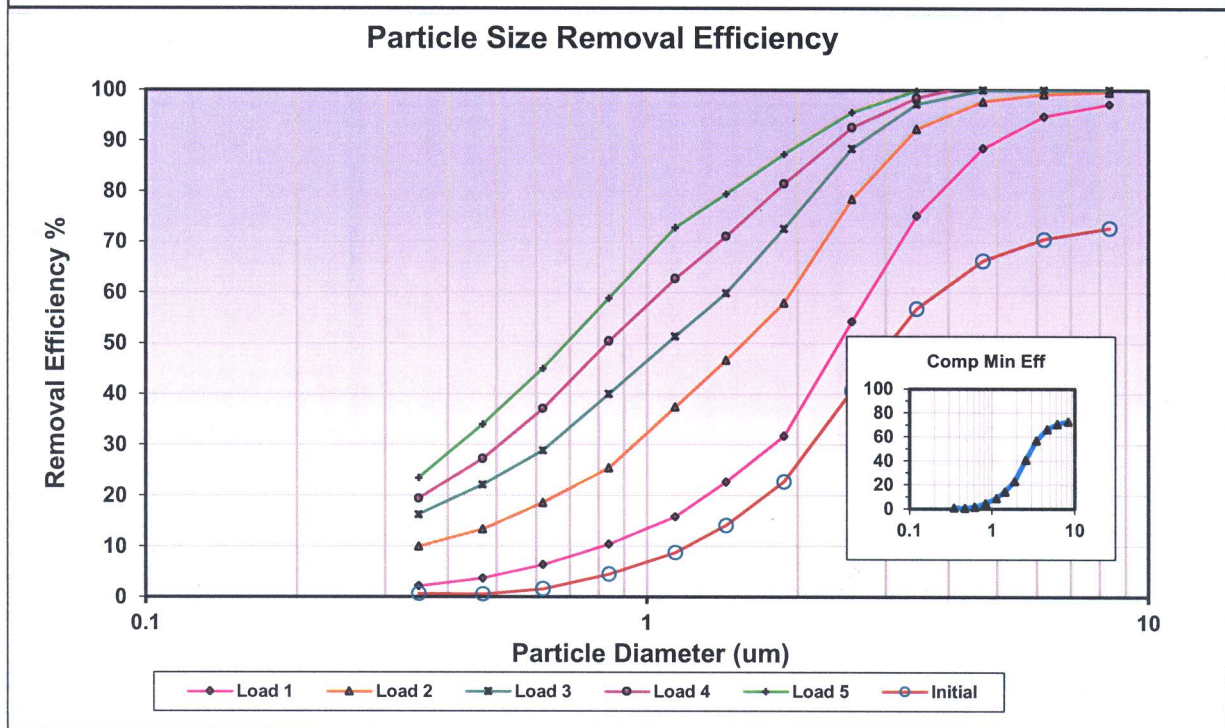
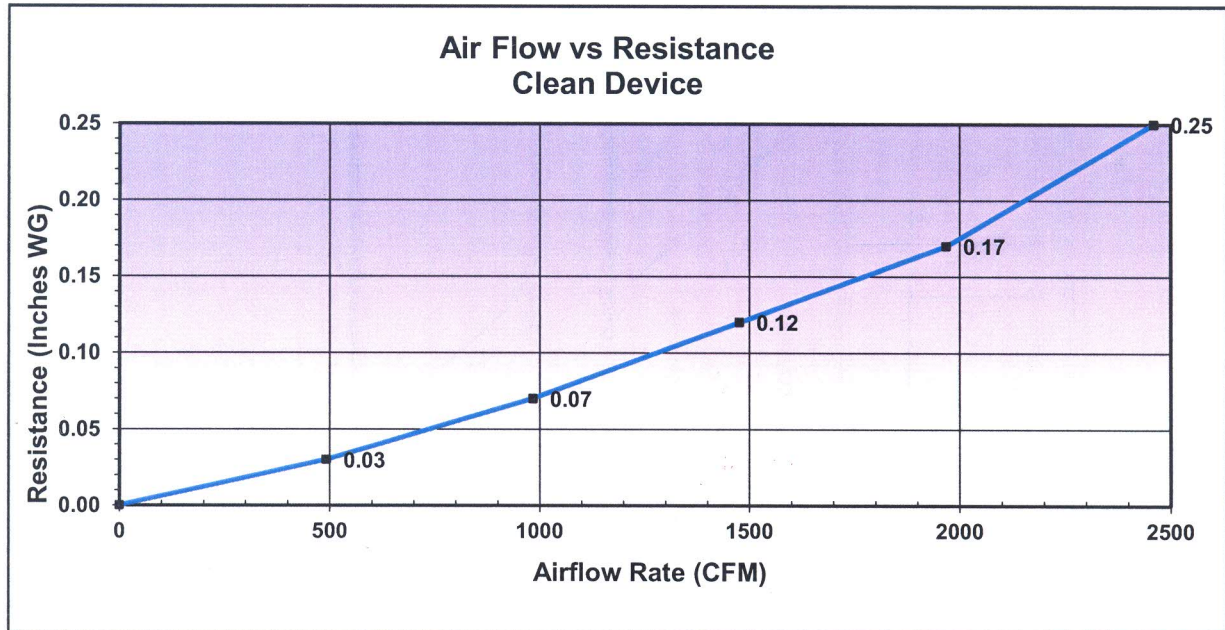
Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.17
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	1010
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	2
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	22
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	67
Minimum Efficiency Reporting Value (MERV)	MERV 7 @ 1968 CFM

Comments Tested For: Viskon-Aire Corp
Final Pressure Drop ("w.c.) 1.50"w.c.
Dust Holding Capacity (gms) 916
Average Arrestance (%) 90.7

Test Performed by: JPS

Approved By:

Test Completed: 16-Oct-17



Test No. 17-546-5
Date: 16-Oct-17

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.03
984	0.07
1476	0.12
1968	0.17
2460	0.25

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)							
0.30 - 0.40	0.35	0.6	0.6	2.1	10.0	16.3	19.4	23.5	
0.40 - 0.55	0.47	0.5	0.5	3.7	13.4	22.1	27.2	34.0	
0.55 - 0.70	0.62	1.5	1.5	6.4	18.6	28.8	37.1	44.9	
0.70 - 1.00	0.84	4.4	4.4	10.4	25.4	39.9	50.4	58.8	
1.00 - 1.30	1.14	8.8	8.8	15.9	37.4	51.3	62.8	72.8	
1.30 - 1.60	1.44	14.1	14.1	22.7	46.7	59.8	71.1	79.4	
1.60 - 2.20	1.88	22.7	22.7	31.7	58.0	72.6	81.5	87.3	
2.20 - 3.00	2.57	40.6	40.6	54.3	78.4	88.4	92.6	95.6	
3.00 - 4.00	3.46	56.8	56.8	75.1	92.3	97.2	98.5	99.8	
4.00 - 5.50	4.69	66.3	66.3	88.5	97.7	100.0	101.5	103.0	
5.50 - 7.00	6.20	70.5	70.5	94.8	99.1	100.0	102.8	105.0	
7.00 - 10.00	8.37	72.7	72.7	97.2	99.6	100.0	103.3	105.7	
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
Resistance after Dust Load (in w.c.) ----->				0.18	0.50	0.84	1.17	1.50	
Dust Load (gms) ----->				30	407	702	882	1010	

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	0.360	0.219	0.339	0.141	0.213
2	0.47	0.102	0.104	0.267	0.200	0.324
3	0.62	0.024	0.055	0.143	0.177	0.247
4	0.84	0.013	0.036	0.190	0.252	0.375
5	1.14	0.032	0.068	0.367	0.549	0.824
6	1.44	0.023	0.028	0.348	0.543	0.794
7	1.88	0.027	0.040	0.541	0.791	1.069
8	2.57	0.068	0.032	1.006	1.472	2.322
9	3.46	0.105	0.059	2.041	2.834	4.436
10	4.69	0.128	0.100	3.616	4.947	8.047
11	6.2	0.176	0.140	5.085	6.785	11.841
12	8.37	0.230	0.266	6.710	7.751	12.953