



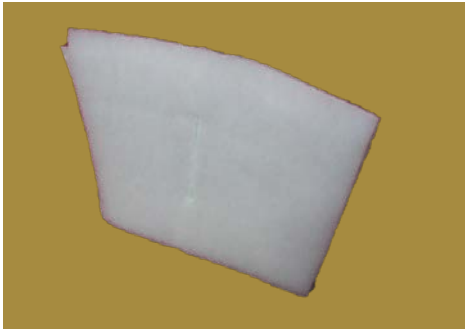
2820 S. English Station Road - Louisville, KY 40299  
 Tel: (502) 357-0132 Fax (502) 267-8379

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 <sup>2</sup>
Adhesive Type	Tack



### Test Conditions

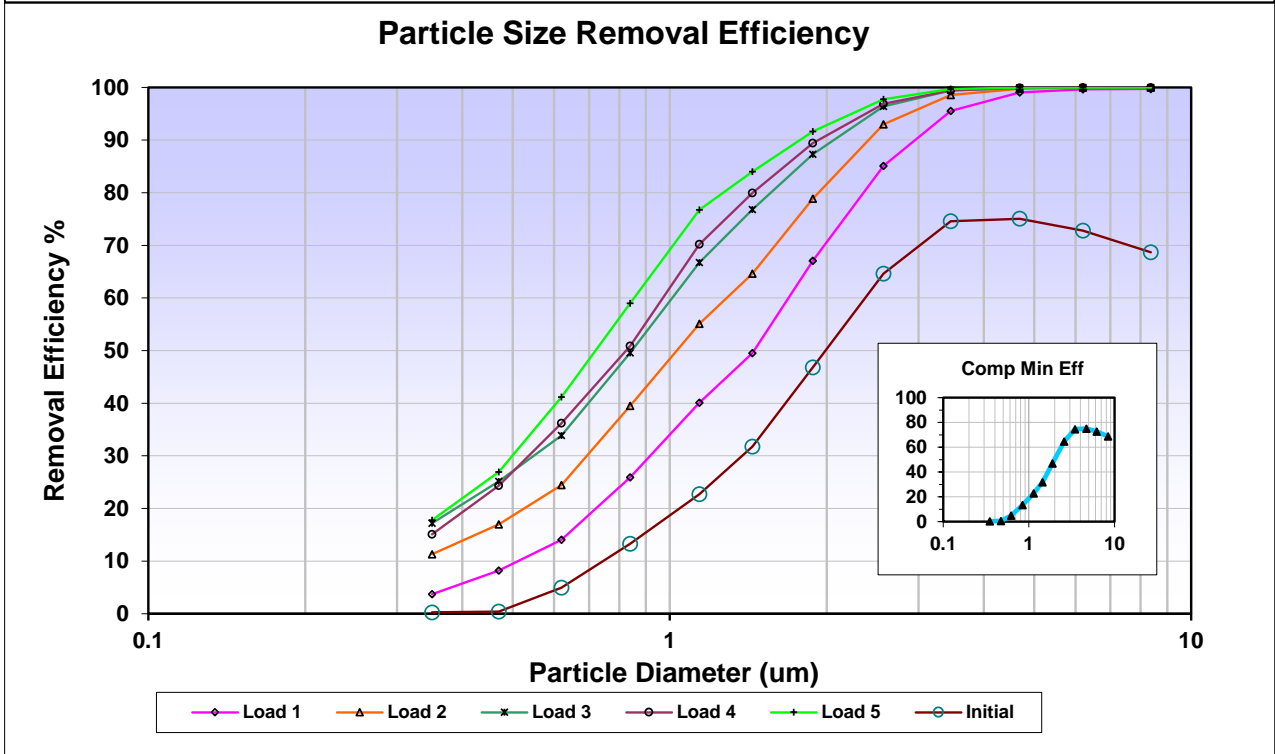
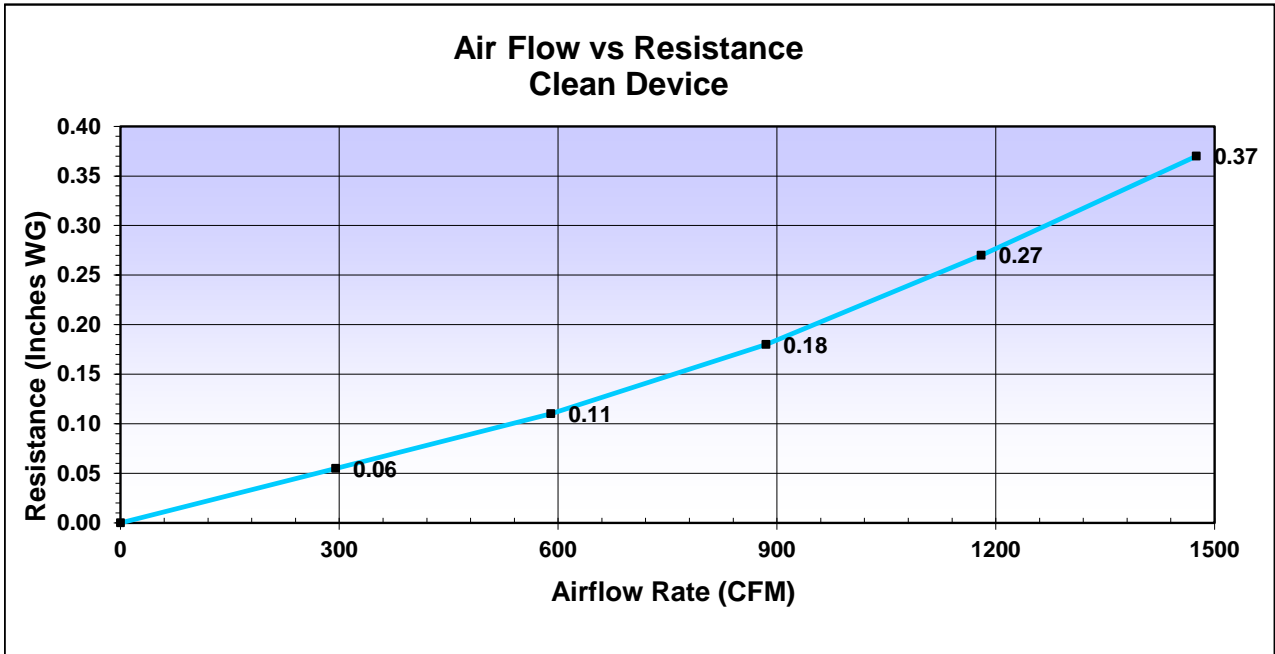
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	70
Barometric Pressure (In. Hg.)	29.41	Relative Humidity (%)	37

### Test Results

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

**Comments** Tested For: Viskon-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 (µm)	Geometric Mean Diam (µm)	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