



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

Date: 28-Sep-17 TEST NO. 17-546-1

## Test Report ANSI/ASHRAE Standard 52.2-2017

### Filter Description

Manufacturer	Viskon-Aire Corp
Filter Model	Series 152
Part Number	152-2424
Generic Filter Type	Panel
Nominal Dimensions (H x W x D)	24" x 24" x 0.5"
Pocket / Pleat Quantity	N/A
Media Type	Polyester
Est. Gross Media Area	4.0 Ft <sup>2</sup>
Adhesive Type	N/A




### Test Conditions

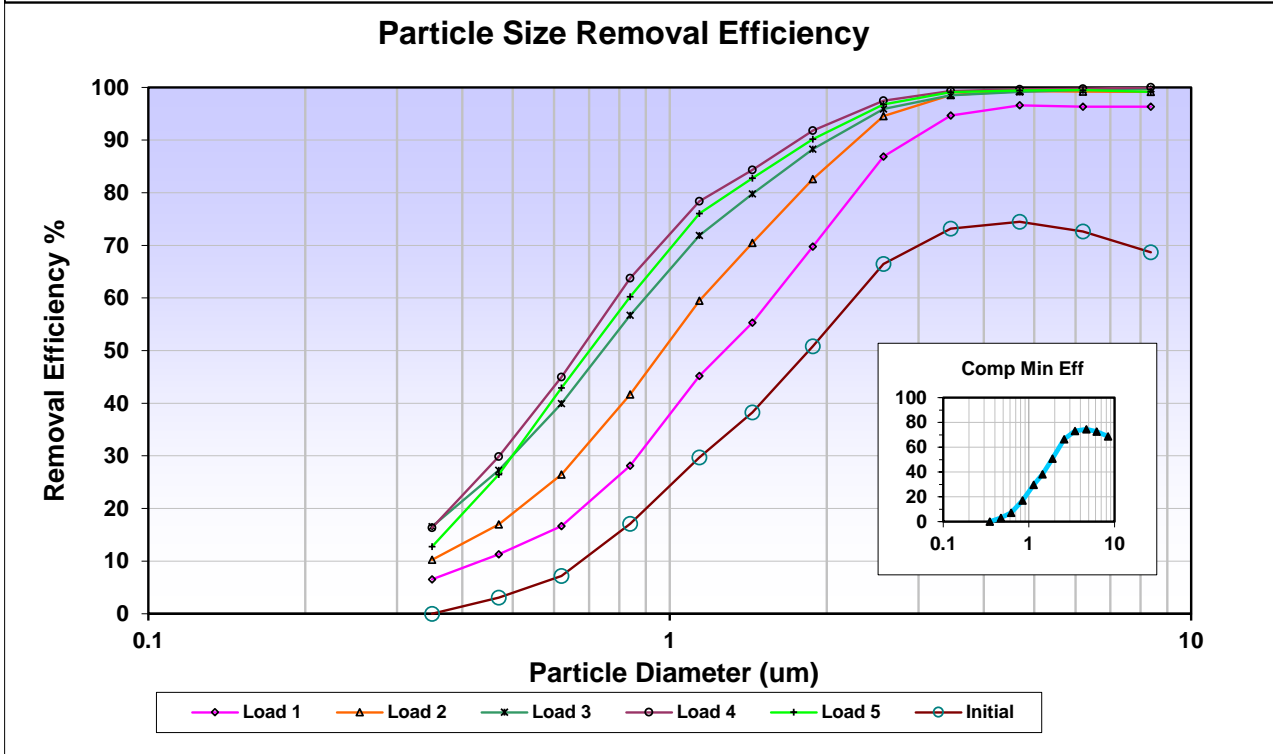
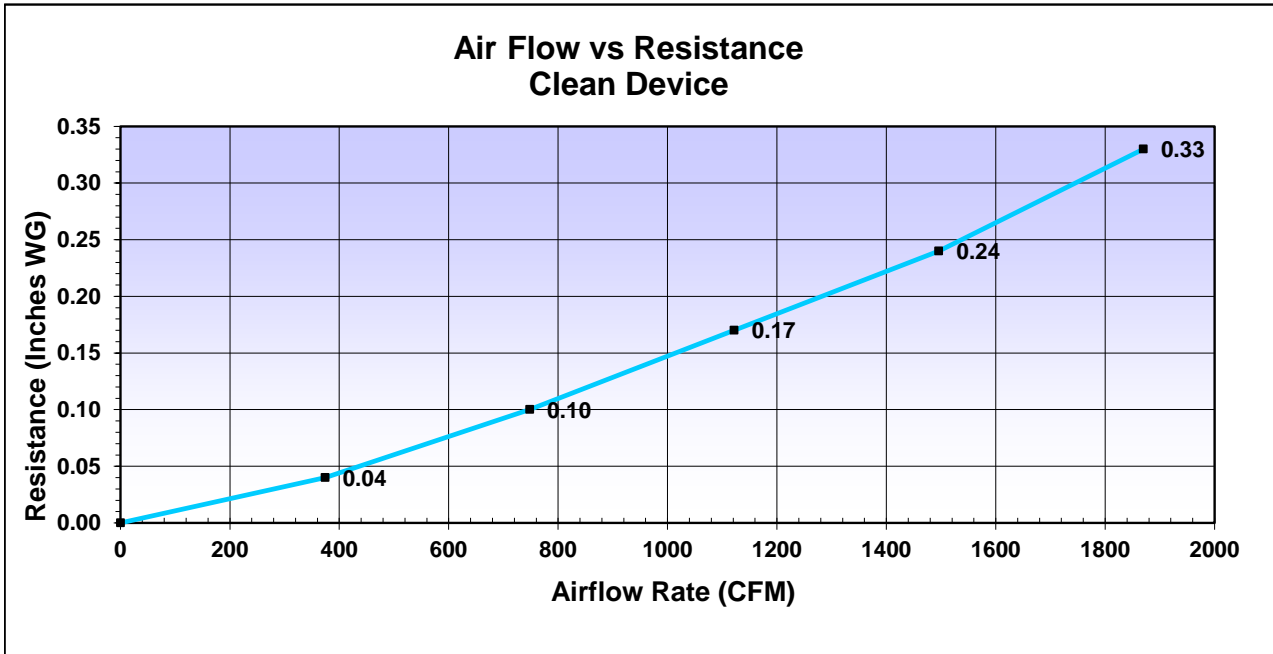
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	73
Barometric Pressure (In. Hg.)	29.33	Relative Humidity (%)	39

### Test Results

<b>Airflow Rate (CFM)</b>	<b>1496</b>
<b>Nominal Face Velocity (fpm)</b>	<b>374</b>
<b>Initial Resistance (in WG)</b>	<b>0.24</b>
<b>Final Resistance (in WG)</b>	<b>1.50</b>
<b>Dust Fed (gms) to Final Resistance</b>	<b>230</b>
<b>E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um</b>	<b>7</b>
<b>E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um</b>	<b>46</b>
<b>E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um</b>	<b>72</b>
<b>Minimum Efficiency Reporting Value (MERV)</b>	<b>MERV 8 @ 1496 CFM</b>

**Comments** Tested For: Viskon-Aire Corp  
 Final Pressure Drop ("w.c.) 1.50"w.c.  
 Dust Holding Capacity (gms) 204  
 Average Arrestance (%) 88.7

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	0.10
1122	0.17
1496	0.24
1870	0.33

**Data - Particle Removal Efficiency**

Particle Size Range (µm)	Geometric Mean Diam (µm)	Particle Removal Efficiency (%)						
		0.0	3.1	7.2	16.6	31.5		
0.30 - 0.40	0.35	0.0	0.0	6.5	10.2	16.6	16.3	12.7
0.40 - 0.55	0.47	3.1	3.1	11.3	17.0	27.3	29.9	26.5
0.55 - 0.70	0.62	7.2	7.2	16.6	26.4	39.9	45.0	42.9
0.70 - 1.00	0.84	17.1	17.1	28.1	41.7	56.7	63.7	60.3
1.00 - 1.30	1.14	29.7	29.7	45.2	59.5	71.9	78.4	76.1
1.30 - 1.60	1.44	38.2	38.2	55.3	70.5	79.8	84.3	82.7
1.60 - 2.20	1.88	50.8	50.8	69.7	82.6	88.3	91.8	90.1
2.20 - 3.00	2.57	66.5	66.5	86.9	94.6	95.9	97.5	96.8
3.00 - 4.00	3.46	73.2	73.2	94.7	98.5	98.5	99.3	99.1
4.00 - 5.50	4.69	74.5	74.5	96.6	99.3	99.2	99.7	99.4
5.50 - 7.00	6.20	72.6	72.6	96.3	99.2	99.5	99.7	99.5
7.00 - 10.00	8.37	68.7	68.7	96.4	99.1	99.7	100.0	99.2
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5
				0.28	0.56	0.87	1.19	1.50
				9	69	142	189	230

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

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	0.172	0.449	0.222	2.827	0.148
2	0.47	0.040	0.098	0.062	2.577	0.124
3	0.62	0.020	0.029	0.048	1.780	0.091
4	0.84	0.014	0.023	0.073	1.456	0.116
5	1.14	0.006	0.024	0.105	0.927	0.092
6	1.44	0.006	0.035	0.092	0.755	0.112
7	1.88	0.007	0.020	0.172	0.720	0.094
8	2.57	0.007	0.058	0.336	1.171	0.168
9	3.46	0.009	0.122	0.787	2.614	0.414
10	4.69	0.015	0.276	1.575	4.225	0.690
11	6.2	0.000	0.463	2.557	5.556	1.130
12	8.37	0.218	0.479	2.159	3.386	0.785