



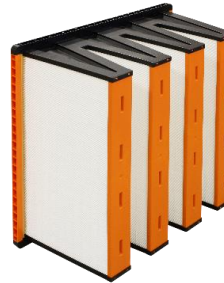
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Date: 16-Nov-17 TEST NO.17-621-4C

## Test Report ANSI/ASHRAE Standard 52.2-2017

### Filter Description

Manufacturer	Viskon-Aire Corp.
Filter Model	4 V-Cell MERV 15
Part Number	4VB15242412
Generic Filter Type	12" V Cell
Nominal Dimensions (H x W x D)	24" x 24" x 12"
Pocket / Pleat Quantity	8 Packs
Media Type	Microglass Media
Est. Gross Media Area	200 Ft <sup>2</sup>
Adhesive Type	Polyurethane




### Test Conditions

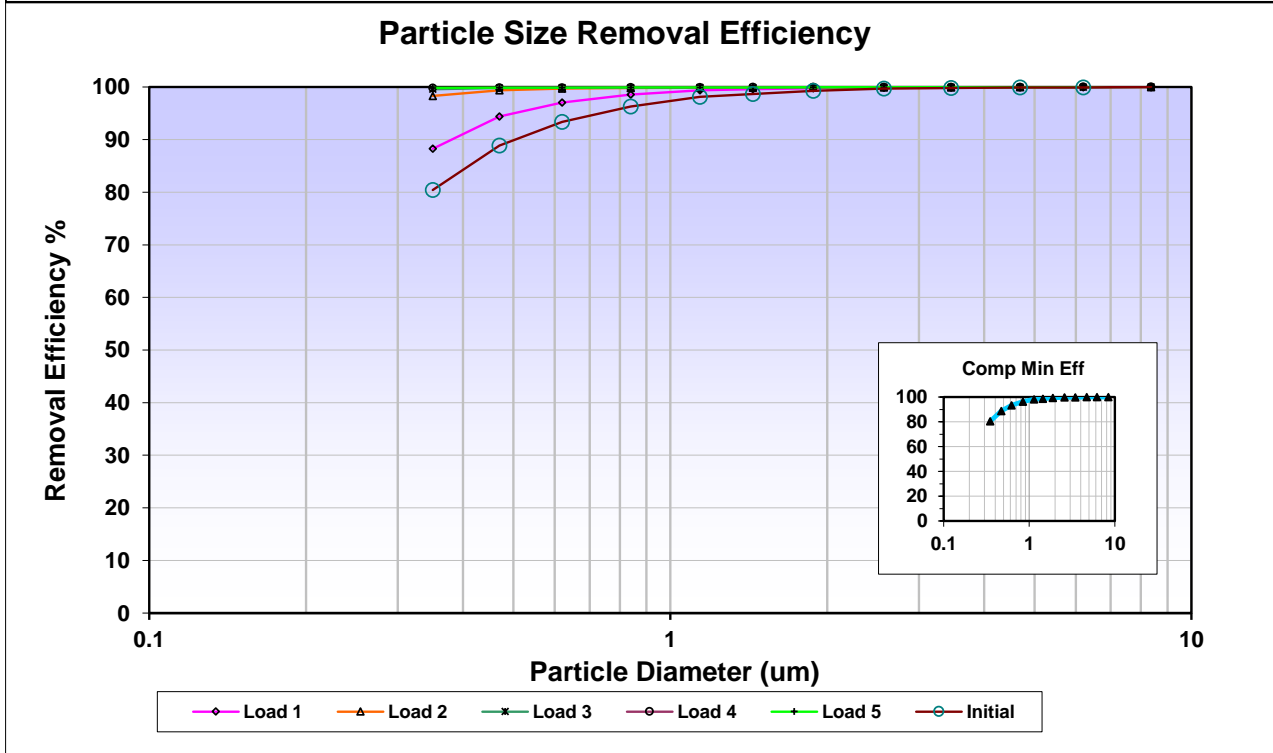
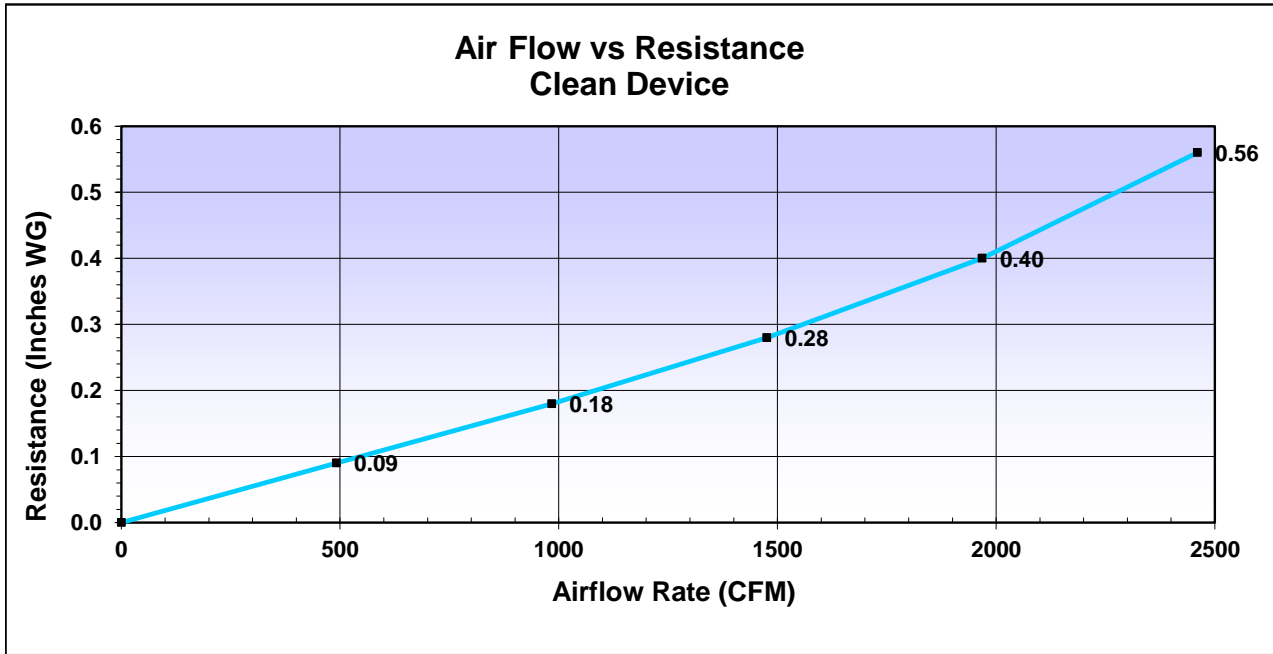
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	70
Barometric Pressure (In. Hg.)	29.56	Relative Humidity (%)	40

### Test Results

<b>Airflow Rate (CFM)</b>	<b>1968</b>
<b>Nominal Face Velocity (fpm)</b>	<b>492</b>
<b>Initial Resistance (in WG)</b>	<b>0.40</b>
<b>Final Resistance (in WG)</b>	<b>1.50</b>
<b>Dust Fed (gms) to Final Resistance</b>	<b>403</b>
<b>E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um</b>	<b>90</b>
<b>E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um</b>	<b>99</b>
<b>E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um</b>	<b>100</b>
<b>Minimum Efficiency Reporting Value (MERV)</b>	<b>MERV 15 @ 1968 CFM</b>

**Comments** Tested For: Visikon-Aire Corp.  
 Final Pressure Drop ("w.c.) 1.50"w.c.  
 Dust Holding Capacity (gms) 403  
 Average Arrestance (%) 100.0

**Test Performed by:** RAS      **Approved By:**       **Test Completed:** 16-Nov-17



**Data - Initial Resistance**

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.09
984	0.18
1476	0.28
1968	0.40
2460	0.56

**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	80.4	80.4	88.3	98.3	99.6	99.8	99.8	
0.40 - 0.55	0.47	88.9	88.9	94.4	99.4	99.8	99.9	99.9	
0.55 - 0.70	0.62	93.4	93.4	97.0	99.7	99.9	99.9	99.9	
0.70 - 1.00	0.84	96.3	96.3	98.6	99.8	99.9	99.9	99.9	
1.00 - 1.30	1.14	98.1	98.1	99.4	99.9	99.9	99.9	99.9	
1.30 - 1.60	1.44	98.6	98.6	99.6	99.9	99.9	99.9	99.9	
1.60 - 2.20	1.88	99.3	99.3	99.8	99.9	99.9	100.0	99.9	
2.20 - 3.00	2.57	99.7	99.7	99.9	99.9	99.9	100.0	100.0	
3.00 - 4.00	3.46	99.8	99.8	99.9	99.9	100.0	100.0	100.0	
4.00 - 5.50	4.69	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
5.50 - 7.00	6.20	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
7.00 - 10.00	8.37	99.9	100.0	99.9	99.9	100.0	100.0	100.0	
Resistance after Dust Load (in w.c.) ----->				0.44	0.68	0.95	1.23	1.50	
Dust Load (gms) ----->				30	130	221	313	403	

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	0.020	0.018	0.003	0.005	0.002
2	0.47	0.006	0.006	0.001	0.004	0.002
3	0.62	0.002	0.006	0.002	0.003	0.002
4	0.84	0.002	0.003	0.002	0.001	0.001
5	1.14	0.004	0.011	0.009	0.003	0.004
6	1.44	0.003	0.007	0.000	0.010	0.007
7	1.88	0.004	0.010	0.006	0.006	0.006
8	2.57	0.006	0.019	0.010	0.020	0.006
9	3.46	0.011	0.013	0.014	0.012	0.019
10	4.69	0.021	0.055	0.011	0.018	0.000
11	6.2	0.078	0.050	0.000	0.087	0.048
12	8.37	0.061	0.034	0.065	0.051	0.057