



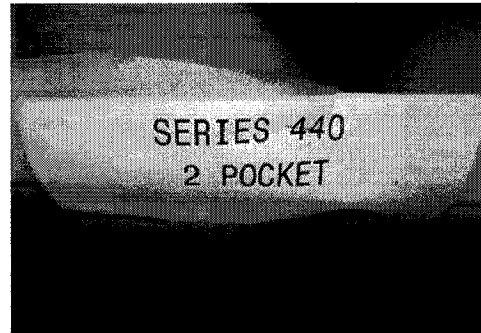
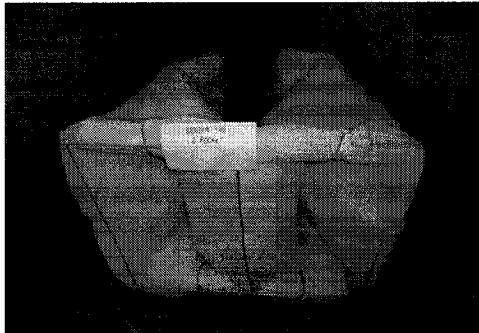
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Date: 14-Dec-11 TEST NO. 11-1871A

## ASHRAE Standard 52.2-2007 TEST REPORT

### Filter Description

Manufacturer	Viskon-Aire Corp.
Filter Model	Series 440
Part Number	440-005
Generic Filter Type	Pocket
Nominal Dimensions (H x W x D)	24"x24"x15"
Pocket / Pleat Quantity	2 Pocket
Media Type	Polyester
Est. Gross Media Area	15 Sq/Ft
Adhesive Type	PBT-32



### Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	68
Barometric Pressure (In. Hg.)	30.49	Relative Humidity (%)	41

### Test Results

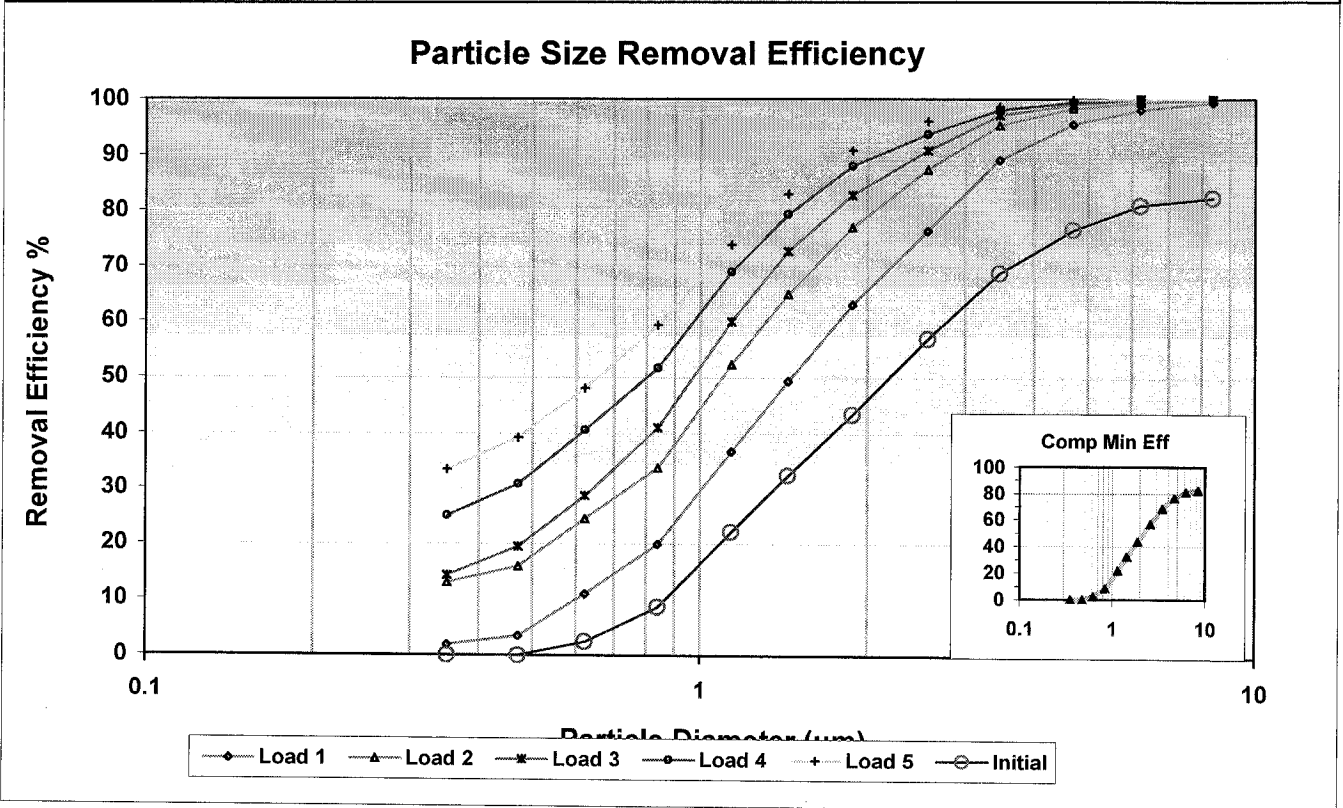
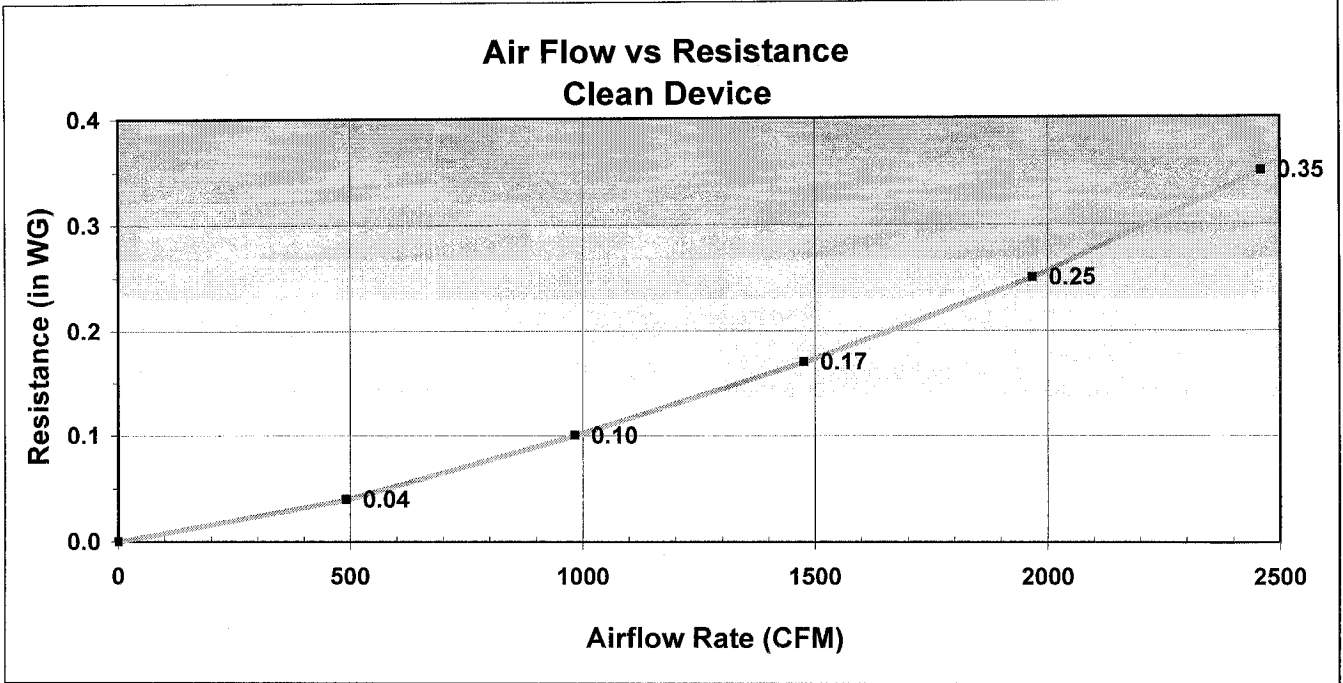
Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.25
Final Resistance (in WG)	1.50
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	3
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	39
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	77

Minimum Efficiency Reporting Value (MERV) MERV 8 @ 1968 CFM

### Comments

Tested For:	Viskon-Aire Corp.
Dust Fed (gms) to Final Resistance:	750
Dust Holding Capacity (gms)	<u>687</u>
Average Arrestance (%)	91.6

Approval:



Test No. 11-1871A  
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**Data - Initial Resistance**

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.04
984	0.10
1476	0.17
1968	0.25
2460	0.35

**Data - Particle Removal Efficiency**

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)							
		0.0	0.0	1.9	13.1	14.3	25.0	33.4	
0.30 - 0.40	0.35	0.0	0.0	1.9	13.1	14.3	25.0	33.4	
0.40 - 0.55	0.47	0.0	0.0	3.6	15.9	19.5	30.8	39.2	
0.55 - 0.70	0.62	2.5	2.5	11.0	24.5	28.6	40.6	48.1	
0.70 - 1.00	0.84	8.6	8.6	19.9	33.8	41.0	51.8	59.4	
1.00 - 1.30	1.14	22.1	22.1	36.7	52.3	60.1	69.1	74.0	
1.30 - 1.60	1.44	32.3	32.3	49.4	65.0	72.8	79.3	83.0	
1.60 - 2.20	1.88	43.3	43.3	63.1	77.0	82.7	88.0	90.8	
2.20 - 3.00	2.57	56.9	56.9	76.4	87.4	90.8	93.6	96.0	
3.00 - 4.00	3.46	68.8	68.8	89.1	95.3	97.2	98.1	98.7	
4.00 - 5.50	4.69	76.6	76.6	95.5	98.4	99.0	99.5	99.9	
5.50 - 7.00	6.20	81.0	81.0	98.0	99.4	100.0	100.0	100.0	
7.00 - 10.00	8.37	82.3	82.3	99.4	99.9	100.0	100.0	100.0	
	CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5		
	Resistance after Dust Load (in WG) ----->		0.29	0.56	0.88	1.19	1.50		
	Dust Load (gms) ----->		25	285	505	659	750		