



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

Date: 13-Dec-11 TEST NO. 11-1870A

## ASHRAE Standard 52.2-2007 TEST REPORT

### Filter Description

Manufacturer	Viskon-Aire Corp.
Filter Model	Series 440 HC
Part Number	440-905
Generic Filter Type	Pocket
Nominal Dimensions (H x W x D)	24"x24"x15"
Pocket / Pleat Quantity	3 Pocket
Media Type	Polyester
Est. Gross Media Area	16.5 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 (%)	42

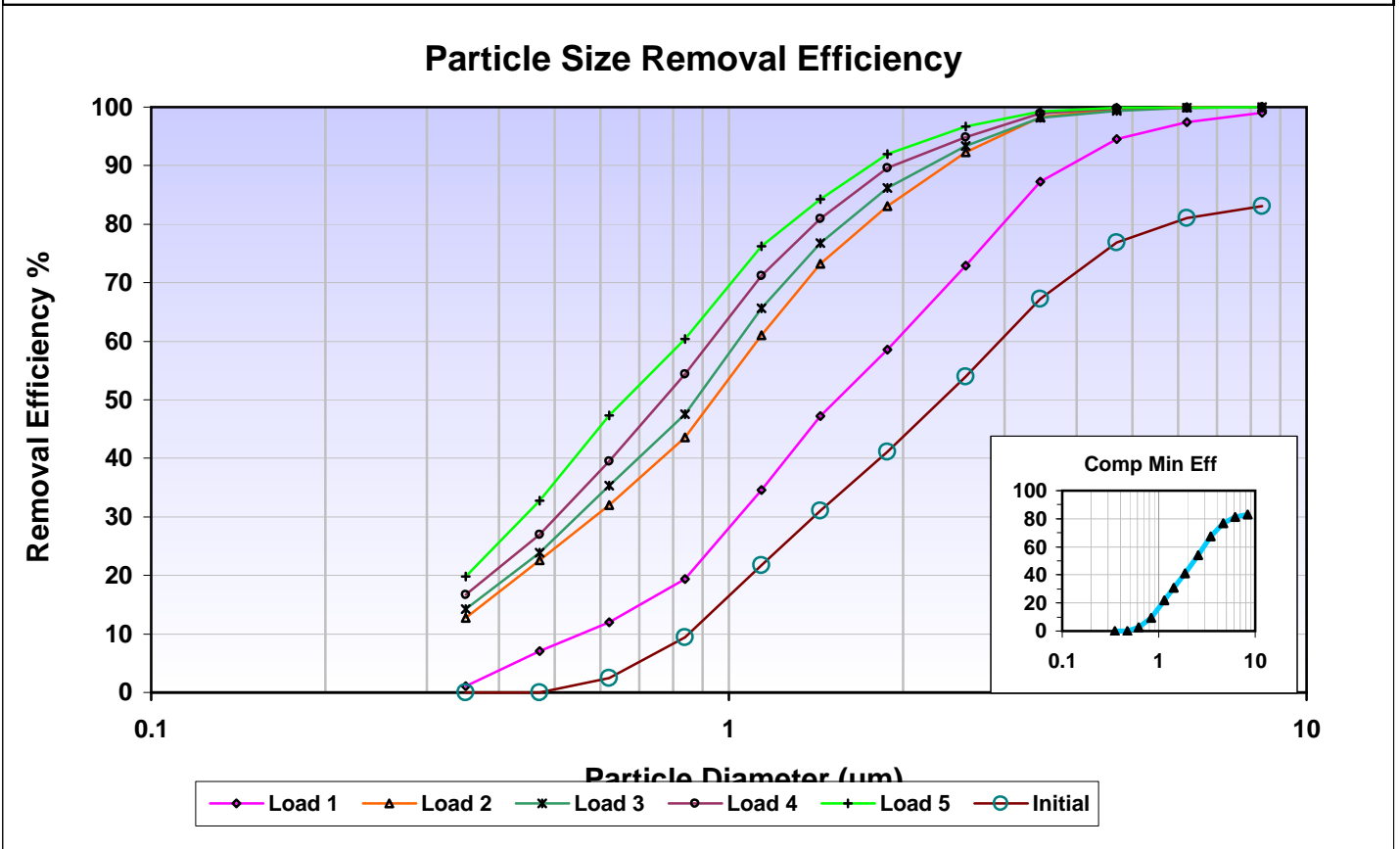
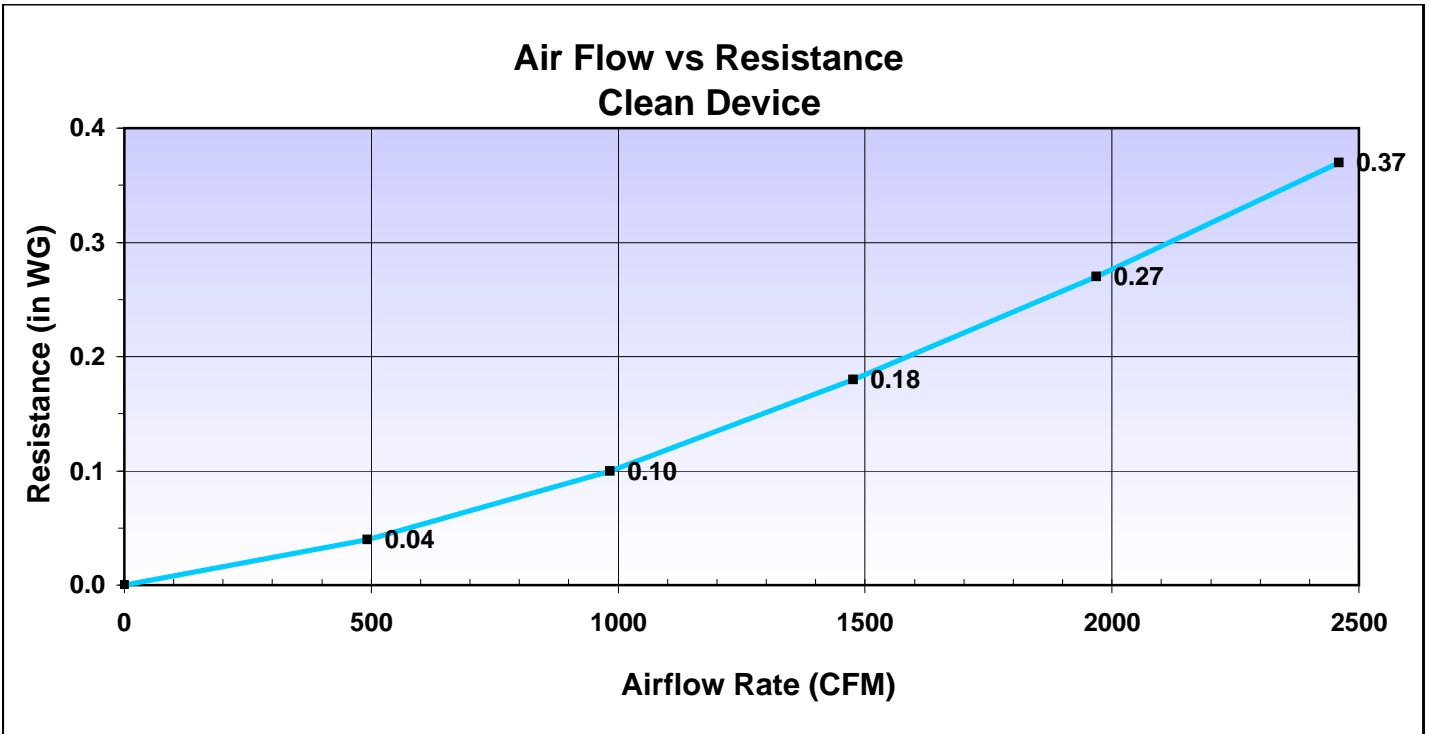
### Test Results

<b>Airflow Rate (CFM)</b>	<b>1968</b>
<b>Nominal Face Velocity (fpm)</b>	<b>492</b>
<b>Initial Resistance (in WG)</b>	<b>0.27</b>
<b>Final Resistance (in WG)</b>	<b>1.50</b>
<b>E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um</b>	<b>3</b>
<b>E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um</b>	<b>37</b>
<b>E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um</b>	<b>77</b>
<b>Minimum Efficiency Reporting Value (MERV)</b>	<b>MERV 8 @ 1968 CFM</b>

**Comments** Tested For: Visikon-Aire Corp.  
 Dust Fed (gms) to Final Resistance: 797  
 Dust Holding Capacity (gms) 730  
 Average Arrestance (%) 91.6

Approval:

Test No. 11-1870A  
 Date: 13-Dec-11



**Blue Heaven Technologies**

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**ASHRAE Standard 52-2007**

**Test Report**

Test No. 11-1870A

Date: 13-Dec-11

**Data - Initial Resistance**

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.04
984	0.10
1476	0.18
1968	0.27
2460	0.37

**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	0.0	0.0	1.1	12.8	14.3	16.7	19.8	
0.40 - 0.55	0.47	0.0	0.0	7.1	22.6	23.9	27.0	32.8	
0.55 - 0.70	0.62	2.5	2.5	12.0	32.0	35.4	39.5	47.3	
0.70 - 1.00	0.84	9.4	9.4	19.3	43.6	47.6	54.4	60.4	
1.00 - 1.30	1.14	21.7	21.7	34.6	61.0	65.6	71.2	76.2	
1.30 - 1.60	1.44	31.0	31.0	47.2	73.3	76.8	80.9	84.3	
1.60 - 2.20	1.88	41.1	41.1	58.6	83.1	86.2	89.6	91.9	
2.20 - 3.00	2.57	53.9	53.9	72.9	92.3	93.4	94.8	96.7	
3.00 - 4.00	3.46	67.2	67.2	87.2	98.2	98.2	99.0	99.3	
4.00 - 5.50	4.69	76.9	76.9	94.5	99.7	99.4	99.8	99.9	
5.50 - 7.00	6.20	81.1	81.1	97.5	100.0	99.9	99.9	99.9	
7.00 - 10.00	8.37	83.0	83.0	99.1	100.0	100.0	100.0	100.0	
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
Resistance after Dust Load (in WG) ----->				0.31	0.58	0.89	1.19	1.50	
Dust Load (gms) ----->				28	404	604	722	797	