



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

Date: 7-Aug-13 TEST NO. 13-1219C

ASHRAE Standard 52.2-2012 TEST REPORT

Filter Description

Manufacturer	Viskon-Aire Corp.
Filter Model	4 V-Cell MERV 13
Part Number	4VB13242412
Generic Filter Type	V-Cell
Nominal Dimensions (H x W x D)	24" x 24" x 12"
Pocket / Pleat Quantity	4 Cells
Media Type	Microglass Fiber
Est. Gross Media Area	193.75 Ft ² (18 m ²)
Adhesive Type	Polyurethane



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	74
Barometric Pressure (In. Hg.)	29.4	Relative Humidity (%)	48

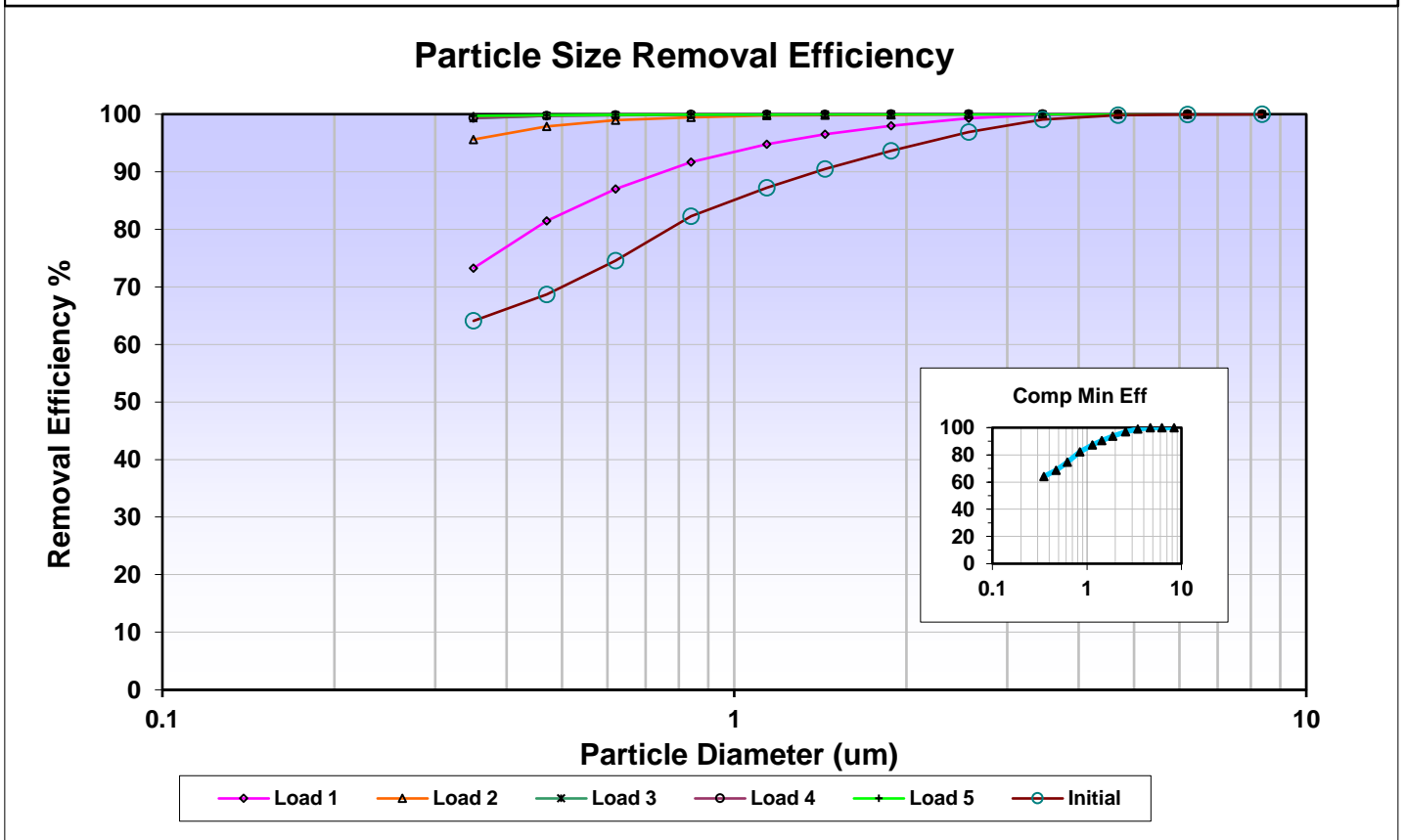
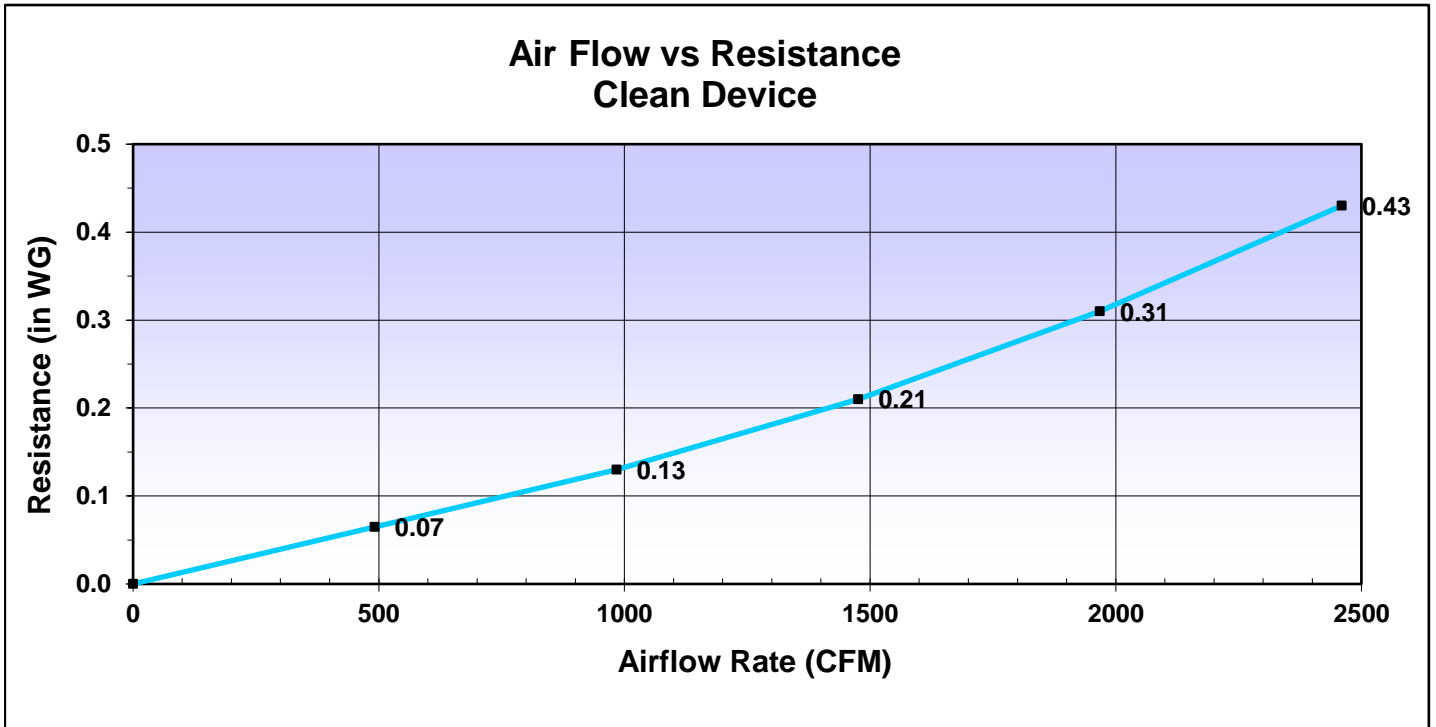
Test Results

Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.31
Final Resistance (in WG)	1.50
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	72
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	92
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	100
Minimum Efficiency Reporting Value (MERV)	MERV 13 @ 1968 CFM

Comments Tested For:	Viskon-Aire Corp.
Dust Fed (gms) to Final Resistance:	313
Dust Holding Capacity (gms)	313
Average Arrestance (%)	99.9

Approval:

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Blue Heaven Technologies

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ASHRAE Standard 52-2012

Test Report

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Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.07
984	0.13
1476	0.21
1968	0.31
2460	0.43

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)						
0.30 - 0.40	0.35	64.1	64.1	73.3	95.6	99.3	99.4	99.7
0.40 - 0.55	0.47	68.7	68.7	81.5	97.9	99.7	99.7	99.8
0.55 - 0.70	0.62	74.5	74.5	87.0	98.9	99.8	99.8	99.9
0.70 - 1.00	0.84	82.3	82.3	91.7	99.5	99.9	100.0	99.9
1.00 - 1.30	1.14	87.2	87.2	94.8	99.8	100.0	100.0	100.0
1.30 - 1.60	1.44	90.5	90.5	96.5	99.8	100.0	100.0	100.0
1.60 - 2.20	1.88	93.7	93.7	98.0	99.9	100.0	100.0	100.0
2.20 - 3.00	2.57	96.9	96.9	99.3	100.0	100.0	100.0	100.0
3.00 - 4.00	3.46	99.1	99.1	99.9	100.0	100.0	100.0	100.0
4.00 - 5.50	4.69	99.8	99.8	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	100.0	100.0	100.0	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) ----->			0.34	0.61	0.91	1.20	1.50
	Dust Load (gms) ----->			30	135	212	260	313