



2820 S. English Station Road - Louisville, KY 40299

Tel: (502) 357-0132

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Date: 10-Dec-12

TEST NO.

12-1808Rev1

ASHRAE Standard 52.2-2007 TEST REPORT

Initial Efficiency / Resistance / Dust Holding Arrestance

Filter Description

Manufacturer	AAF Intrnational
Filter Model	VariCel VXLS MERV 13
Part Number	3081858-006
Generic Filter Type	V-Bank
Nominal Dimensions (H x W x D)	24"x24"x12"
Pocket / Pleat Quantity	8 Panel (4V)
Media Type	Synthetic
Est. Gross Media Area	Standard
Adhesive Type	N A



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	75
Barometric Pressure (In. Hg.)	29.77	Relative Humidity (%)	23

Test Results

Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.27
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	274
E1 (%) Initial Efficiency 0.30 - 1.0 um	72
E2 (%) Initial Efficiency 1.0 - 3.0 um	91
E3 (%) Initial Efficiency 3.0 - 10.0 um	99
Estimated * Minimum Efficiency Reporting Value (MERV)	MERV 13 @ 1968 CFM
* If initial data is minimum	

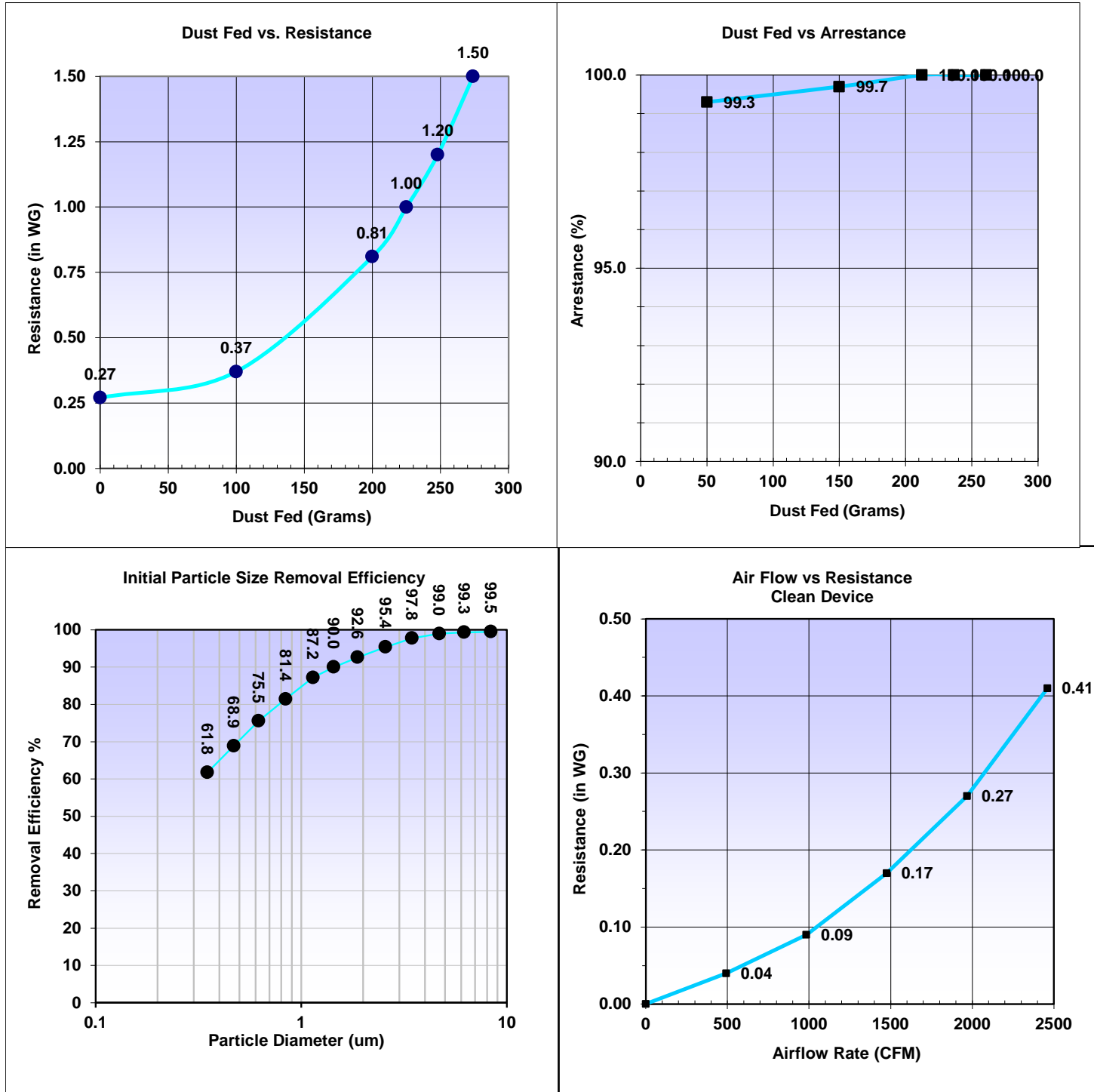
Comments Tested For: AAF Intrnational

	<u>1.5"w.c.</u>	<u>1.2"w.c.</u>	<u>1.0"w.c.</u>
Dust Holding Capacity (gms)	273	247	224
Average Arrestance (%)	99.6	99.6	99.6

Approval:

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Blue Heaven Technologies

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Data - Dust Fed / Arrestance

Dust Fed Increment (gms)	Total Dust Fed (gms)	Resistance (in WG)
0	0	0.27
100	100	0.37
100	200	0.81
25	225	1.00
23	248	1.20
26	274	1.50

Arrestance (%)	Dust Fed Plot Point (gms)
99.3	50
99.7	150
100.0	213
100.0	237
100.0	261

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	61.8
0.40 - 0.55	0.47	68.9
0.55 - 0.70	0.62	75.5
0.70 - 1.00	0.84	81.4
1.00 - 1.30	1.14	87.2
1.30 - 1.60	1.44	90.0
1.60 - 2.20	1.88	92.6
2.20 - 3.00	2.57	95.4
3.00 - 4.00	3.46	97.8
4.00 - 5.50	4.69	99.0
5.50 - 7.00	6.20	99.3
7.00 - 10.00	8.37	99.5

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.04
984	0.09
1476	0.17
1968	0.27
2460	0.41