



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

Date: 30-May-13 TEST NO. 13-0861

ASHRAE Standard 52.2-2012 TEST REPORT Initial Efficiency / Resistance / Dust Holding Arrestance

Filter Description

Manufacturer	AAF International
Filter Model	VariSorb XL15
Part Number	3100465-003
Generic Filter Type	V-Bank
Nominal Dimensions (H x W x D)	24"x24"x12"
Pocket / Pleat Quantity	4 V
Media Type	Standard
Est. Gross Media Area	Standard
Adhesive Type	Standard



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	74
Barometric Pressure (In. Hg.)	29.5	Relative Humidity (%)	44

Test Results

Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.47
Final Resistance (in WG)	2.00
Dust Fed (gms) to Final Resistance	230
E1 (%) Initial Efficiency 0.30 - 1.0 um	89
E2 (%) Initial Efficiency 1.0 - 3.0 um	98
E3 (%) Initial Efficiency 3.0 - 10.0 um	100
Estimated * Minimum Efficiency Reporting Value (MERV)	MERV 15 @ 1968 CFM
* If initial data is minimum	

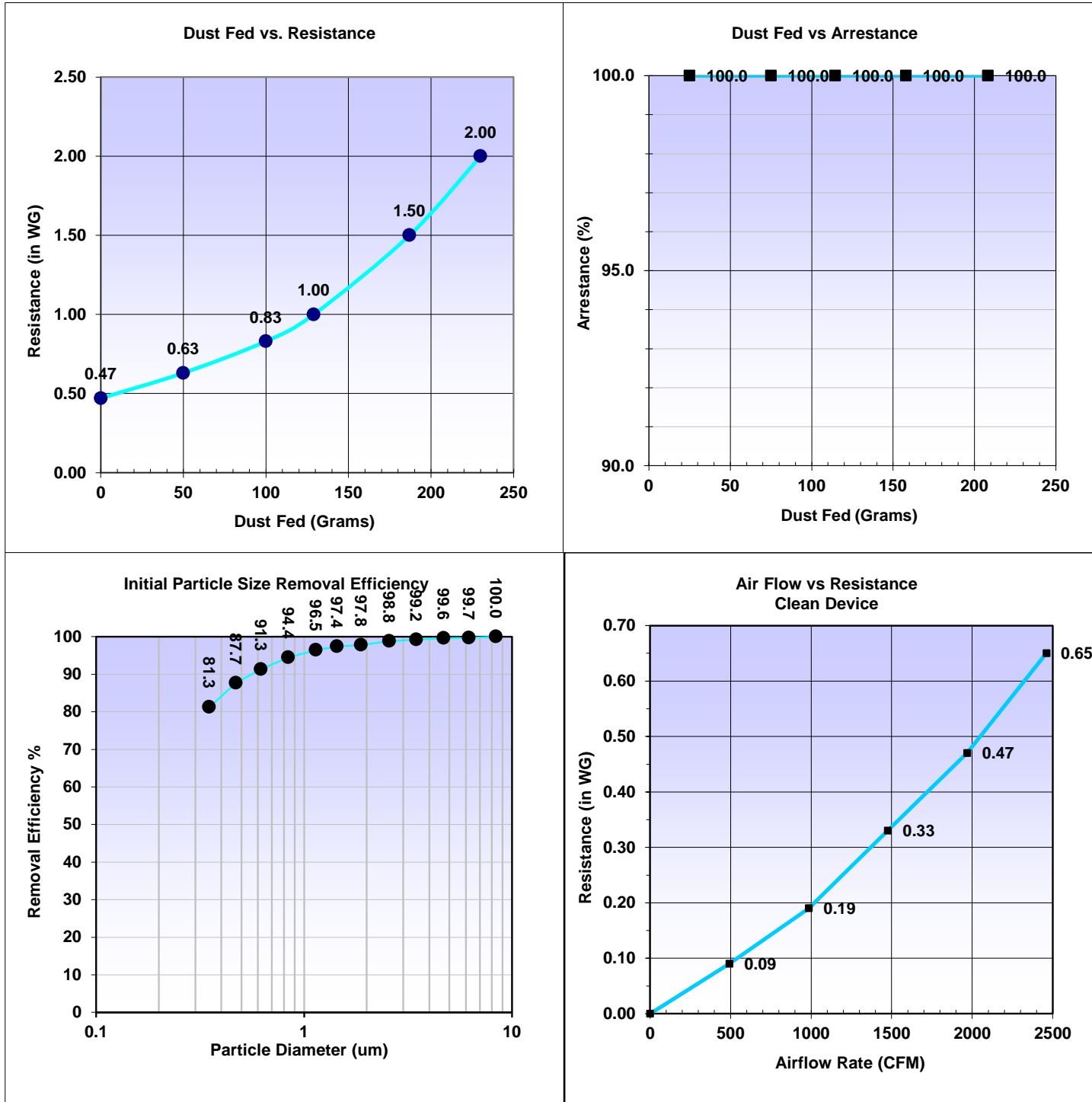
Comments Tested For: AAF International

	<u>2.0"w.c.</u>	<u>1.5"w.c.</u>	<u>1.0"w.c.</u>
Dust Holding Capacity (gms)	230	187	129
Average Arrestance (%)	100	100	100

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	0.47
50	50	0.63
50	100	0.83
29	129	1.00
58	187	1.50
43	230	2.00

Arrestance (%)	Dust Fed Plot Point (gms)
100.0	25
100.0	75
100.0	115
100.0	158
100.0	209

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	81.3
0.40 - 0.55	0.47	87.7
0.55 - 0.70	0.62	91.3
0.70 - 1.00	0.84	94.4
1.00 - 1.30	1.14	96.5
1.30 - 1.60	1.44	97.4
1.60 - 2.20	1.88	97.8
2.20 - 3.00	2.57	98.8
3.00 - 4.00	3.46	99.2
4.00 - 5.50	4.69	99.6
5.50 - 7.00	6.20	99.7
7.00 - 10.00	8.37	100.0

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.09
984	0.19
1476	0.33
1968	0.47
2460	0.65