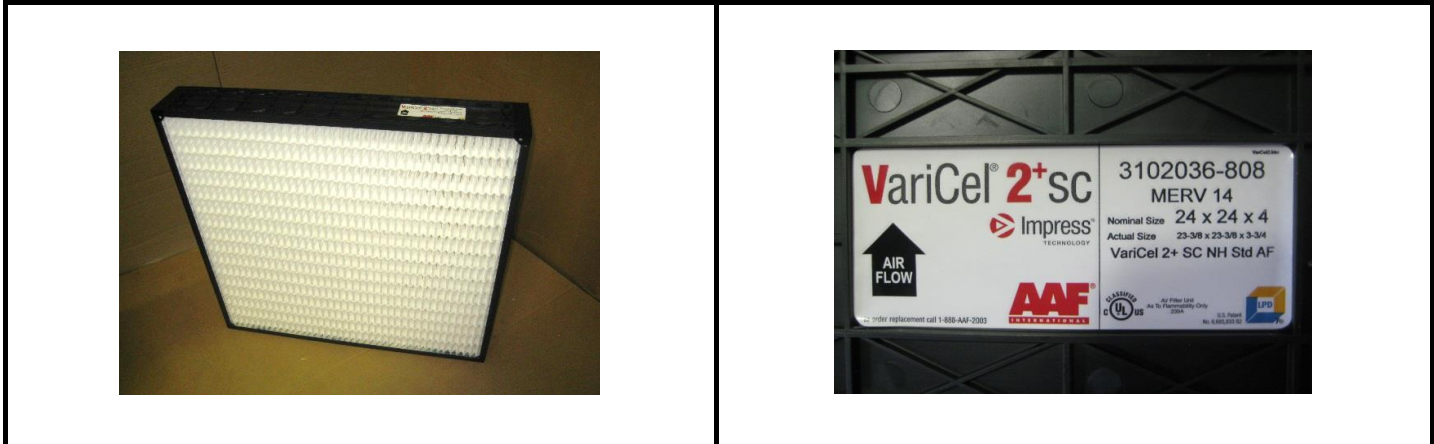
 <p style="text-align: center;">2820 S. English Station Road - Louisville, KY 40299 Tel: (502) 357-0132 Fax (502) 267-8379</p>	<p>Date: 21-Aug-14 TEST NO. 14-1481A</p> <h2 style="text-align: center;">ASHRAE Standard 52.2-2012 TEST REPORT</h2> <h3 style="text-align: center;">Initial Efficiency / Resistance / Dust Holding Arrestance</h3>
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Filter Description	<table style="width: 100%; border: none;"> <tr><td style="width: 50%;">Manufacturer</td><td style="width: 50%;">AAF International</td></tr> <tr><td>Filter Model</td><td>Varicel 2+ SC MERV 14</td></tr> <tr><td>Part Number</td><td>N A</td></tr> <tr><td>Generic Filter Type</td><td>Hot Melt Separated Pleat Pack</td></tr> <tr><td>Nominal Dimensions (H x W x D)</td><td>24x24x4</td></tr> <tr><td>Pocket / Pleat Quantity</td><td>Standard</td></tr> <tr><td>Media Type</td><td>Synthetic</td></tr> <tr><td>Est. Gross Media Area</td><td>4.5 m2</td></tr> <tr><td>Adhesive Type</td><td>N A</td></tr> </table>	Manufacturer	AAF International	Filter Model	Varicel 2+ SC MERV 14	Part Number	N A	Generic Filter Type	Hot Melt Separated Pleat Pack	Nominal Dimensions (H x W x D)	24x24x4	Pocket / Pleat Quantity	Standard	Media Type	Synthetic	Est. Gross Media Area	4.5 m2	Adhesive Type	N A
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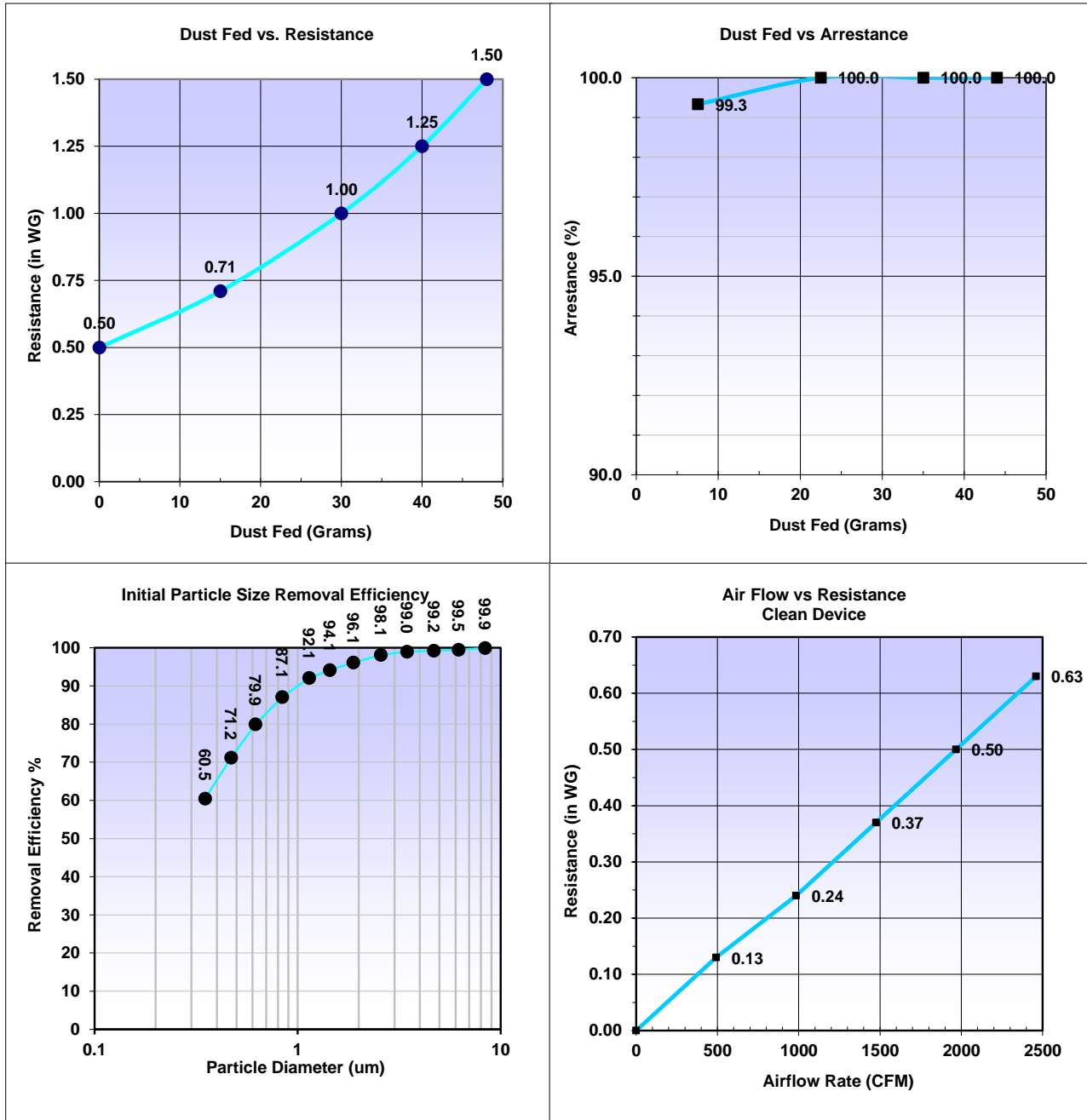


Test Conditions			
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	77
Barometric Pressure (In. Hg.)	29.5	Relative Humidity (%)	51

Test Results	
Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.50
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	48
E1 (%) Initial Efficiency 0.30 - 1.0 um	75
E2 (%) Initial Efficiency 1.0 - 3.0 um	95
E3 (%) Initial Efficiency 3.0 - 10.0 um	99
Estimated * Minimum Efficiency Reporting Value (MERV) * If initial data is minimum	MERV 14 @ 1968 CFM

Comments Tested For: AAF International			
Final Pressure Drop ("w.c.)	<u>1.50" w.c.</u>	<u>1.25" w.c.</u>	<u>1.00" w.c.</u>
Dust Holding Capacity (gms)	48	40	30
Average Arrestance (%)	99.8	99.8	99.7

Test Performed by:	DP	Approved By:		Test Completed:	21-Aug-14
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Data - Dust Fed / Arrestance

Dust Fed Increment (gms)	Total Dust Fed (gms)	Resistance (in WG)
0	0	0.50
15	15	0.71
15	30	1.00
10	40	1.25
8	48	1.50

Arrestance (%)	Dust Fed Plot Point (gms)
99.3	7.5
100.0	23
100.0	35
100.0	44

a - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	60.5
0.40 - 0.55	0.47	71.2
0.55 - 0.70	0.62	79.9
0.70 - 1.00	0.84	87.1
1.00 - 1.30	1.14	92.1
1.30 - 1.60	1.44	94.1
1.60 - 2.20	1.88	96.1
2.20 - 3.00	2.57	98.1
3.00 - 4.00	3.46	99.0
4.00 - 5.50	4.69	99.2
5.50 - 7.00	6.20	99.5
7.00 - 10.00	8.37	99.9

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.13
984	0.24
1476	0.37
1968	0.50
2460	0.63