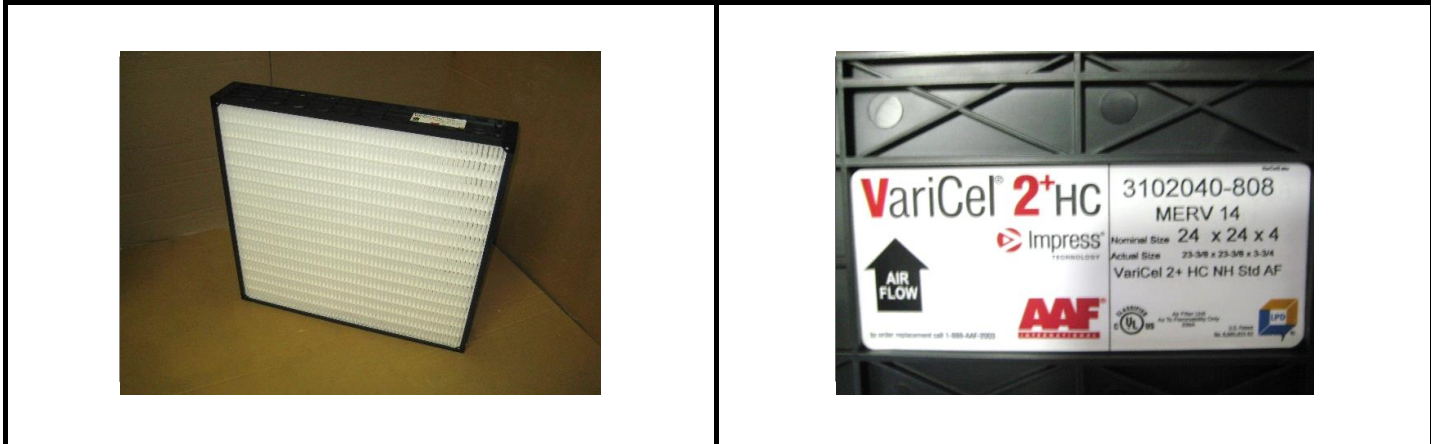
 <p style="text-align: center;">2820 S. English Station Road - Louisville, KY 40299 Tel: (502) 357-0132 Fax (502) 267-8379</p>	<p>Date: 21-Aug-14 TEST NO. 14-1478A</p> <p style="text-align: center;">ASHRAE Standard 52.2-2012 TEST REPORT Initial Efficiency / Resistance / Dust Holding Arrestance</p>
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Filter Description	
Manufacturer	AAF International
Filter Model	Varicel 2+ HC MERV 14
Part Number	NA
Generic Filter Type	Hot Melt Separated Pleat Pack
Nominal Dimensions (H x W x D)	24"x24"x4"
Pocket / Pleat Quantity	61 Pleats
Media Type	Standard
Est. Gross Media Area	6.5 m ²
Adhesive Type	Standard

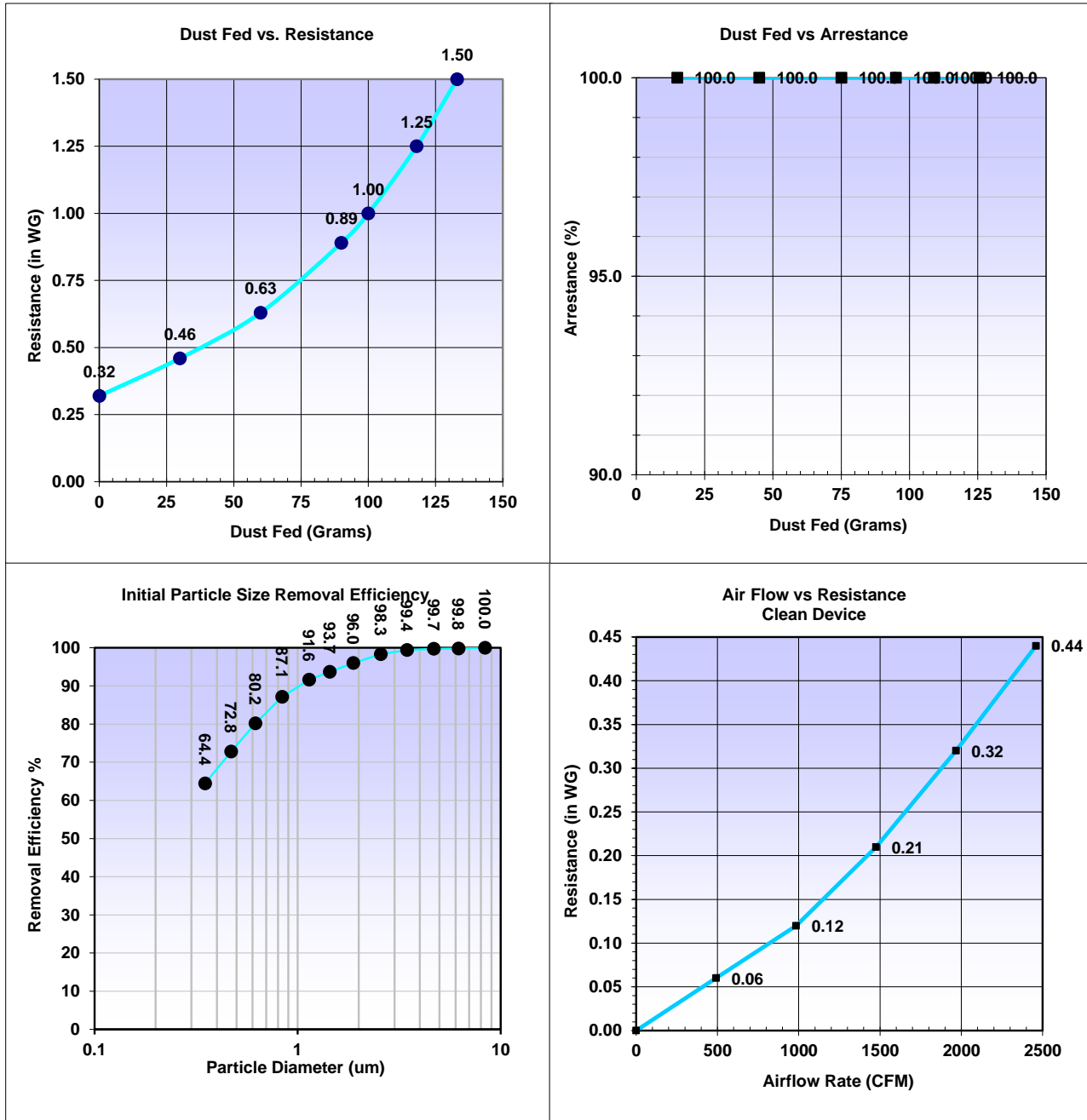


Test Conditions			
Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	75
Barometric Pressure (In. Hg.)	29.41	Relative Humidity (%)	52

Test Results	
Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.32
Final Resistance (in WG)	1.50
Dust Fed (gms) to Final Resistance	133
E1 (%) Initial Efficiency 0.30 - 1.0 um	76
E2 (%) Initial Efficiency 1.0 - 3.0 um	95
E3 (%) Initial Efficiency 3.0 - 10.0 um	100
Estimated * Minimum Efficiency Reporting Value (MERV) * If initial data is minimum	MERV 14 @ 1968 CFM

Comments Tested For: AAF				
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)	133	118	100	
Average Arrestance (%)	100.0	100.0	100.0	

Test Performed by: DLP Approved By:  Test Completed: 21-Aug-14



Data - Dust Fed / Arrestance

Dust Fed Increment (gms)	Total Dust Fed (gms)	Resistance (in WG)
0	0	0.32
30	30	0.46
30	60	0.63
30	90	0.89
10	100	1.00
18	118	1.25
15	133	1.50

Arrestance (%)	Dust Fed Plot Point (gms)
100.0	15
100.0	45
100.0	75
100.0	95
100.0	109
100.0	126

a - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	64.4
0.40 - 0.55	0.47	72.8
0.55 - 0.70	0.62	80.2
0.70 - 1.00	0.84	87.1
1.00 - 1.30	1.14	91.6
1.30 - 1.60	1.44	93.7
1.60 - 2.20	1.88	96.0
2.20 - 3.00	2.57	98.3
3.00 - 4.00	3.46	99.4
4.00 - 5.50	4.69	99.7
5.50 - 7.00	6.20	99.8
7.00 - 10.00	8.37	100.0

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.06
984	0.12
1476	0.21
1968	0.32
2460	0.44