Blue Heaven Technologies

2820 S. English Station Road - Louisville, KY 40299

Tel: (502) 357-0132 Fax (502) 267-8379

Date: 21-Aug-14 **TEST NO.** 14-1480A

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

Filter Description

Manufacturer	AAF International
Filter Model	Varicel 2+ SC MERV 15
Part Number	N A
Generic Filter Type	Hot Melt Separated Pleat Pack
Nominal Dimensions (H x W x D)	24x24x4
Pocket / Pleat Quantity	42 Pleats
Media Type	Standard
Est. Gross Media Area	4.5 m²
Adhesive Type	Standard

Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	74
Barometric Pressure (In. Hg.)	29.53	Relative Humidity (%)	45

Test Results

Airflow Rate (CFM)	**1968**
Nominal Face Velocity (fpm)	**492**
Initial Resistance (in WG)	**0.58**
Final Resistance (in WG)	**1.50**
Dust Fed (gms) to Final Resistance	**40**
E1 (%) Initial Efficiency 0.30 - 1.0 um	**86**
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

	1.50"w.c.	1.25"w.c.	1.00"w.c.
Final Pressure Drop ("w.c.)			
Dust Holding Capacity (gms)	**40**	**33**	**25**
Average Arrestance (%)	**100.0**	**100.0**	**100.0**

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

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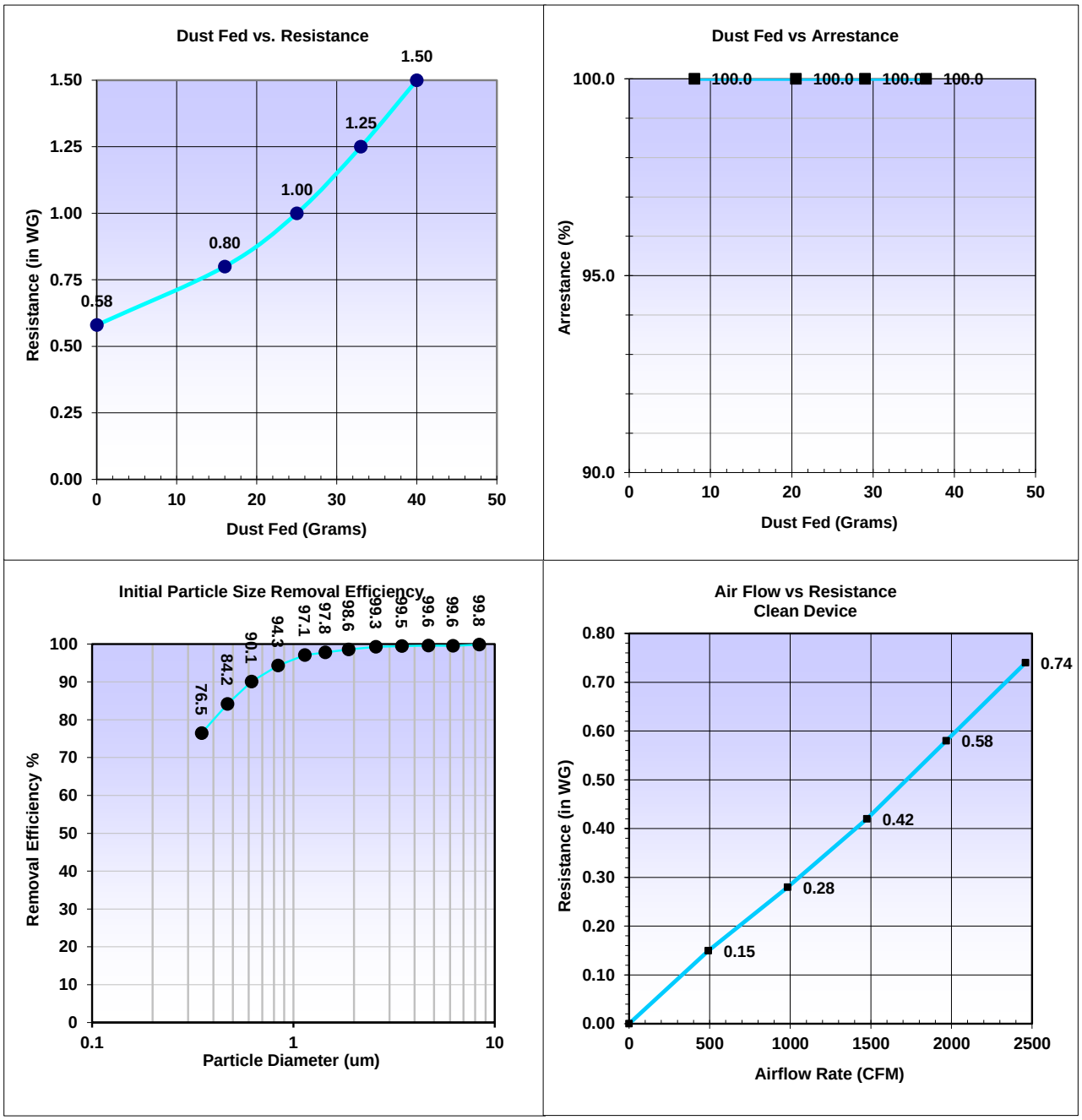

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Data - Dust Fed / Arrestance

Dust Fed Increment (gms)	Total Dust Fed (gms)	Resistance (in WG)
0	0	0.58
16	16	0.80
9	25	1.00
8	33	1.25
7	40	1.50

Arrestance (%)	Dust Fed Plot Point (gms)
100.0	8
100.0	21
100.0	29
100.0	37

a - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	76.5
0.40 - 0.55	0.47	84.2
0.55 - 0.70	0.62	90.1
0.70 - 1.00	0.84	94.3
1.00 - 1.30	1.14	97.1
1.30 - 1.60	1.44	97.8
1.60 - 2.20	1.88	98.6
2.20 - 3.00	2.57	99.3
3.00 - 4.00	3.46	99.5
4.00 - 5.50	4.69	99.6
5.50 - 7.00	6.20	99.6
7.00 - 10.00	8.37	99.8

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.15
984	0.28
1476	0.42
1968	0.58
2460	0.74