Blue Heaven Technologies

2820 S. English Station Road - Louisville, KY 40299

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

Date: 26-Jan-11 **TEST NO.** 11-0105

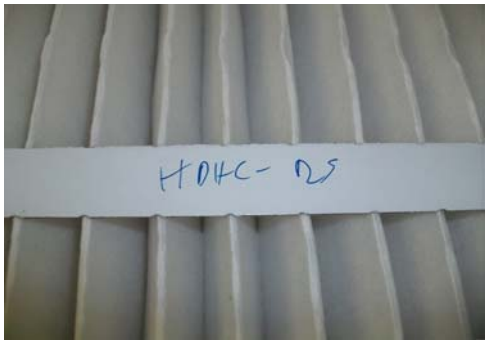
ASHRAE Standard 52.2-2007

TEST REPORT

Initial Efficiency / Resistance / Dust Holding Arrestance

Filter Description

Manufacturer	AAF International
Filter Model	PerfectPleat
Part Number	HDHC-25
Generic Filter Type	Pleat
Nominal Dimensions (H x W x D)	24"x24'x2"
Pocket / Pleat Quantity	28 Pleats
Media Type	Synthetic
Est. Gross Media Area	16.33 Ft2
Adhesive Type	N A



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	71
Barometric Pressure (In. Hg.)	29.99	Relative Humidity (%)	30

Test Results

Airflow Rate (CFM)	**1968**
Nominal Face Velocity (fpm)	**492**
Initial Resistance (in WG)	**0.23**
Final Resistance (in WG)	**1.50**
Dust Fed (gms) to Final Resistance	**157**
E1 (%) Initial Efficiency 0.30 - 1.0 um	**10**
E2 (%) Initial Efficiency 1.0 - 3.0 um	**53**
E3 (%) Initial Efficiency 3.0 - 10.0 um	**78**
Estimated * Minimum Efficiency Reporting Value (MERV)	**MERV 8 @ 1968 CFM**

*** If initial data is minimum**

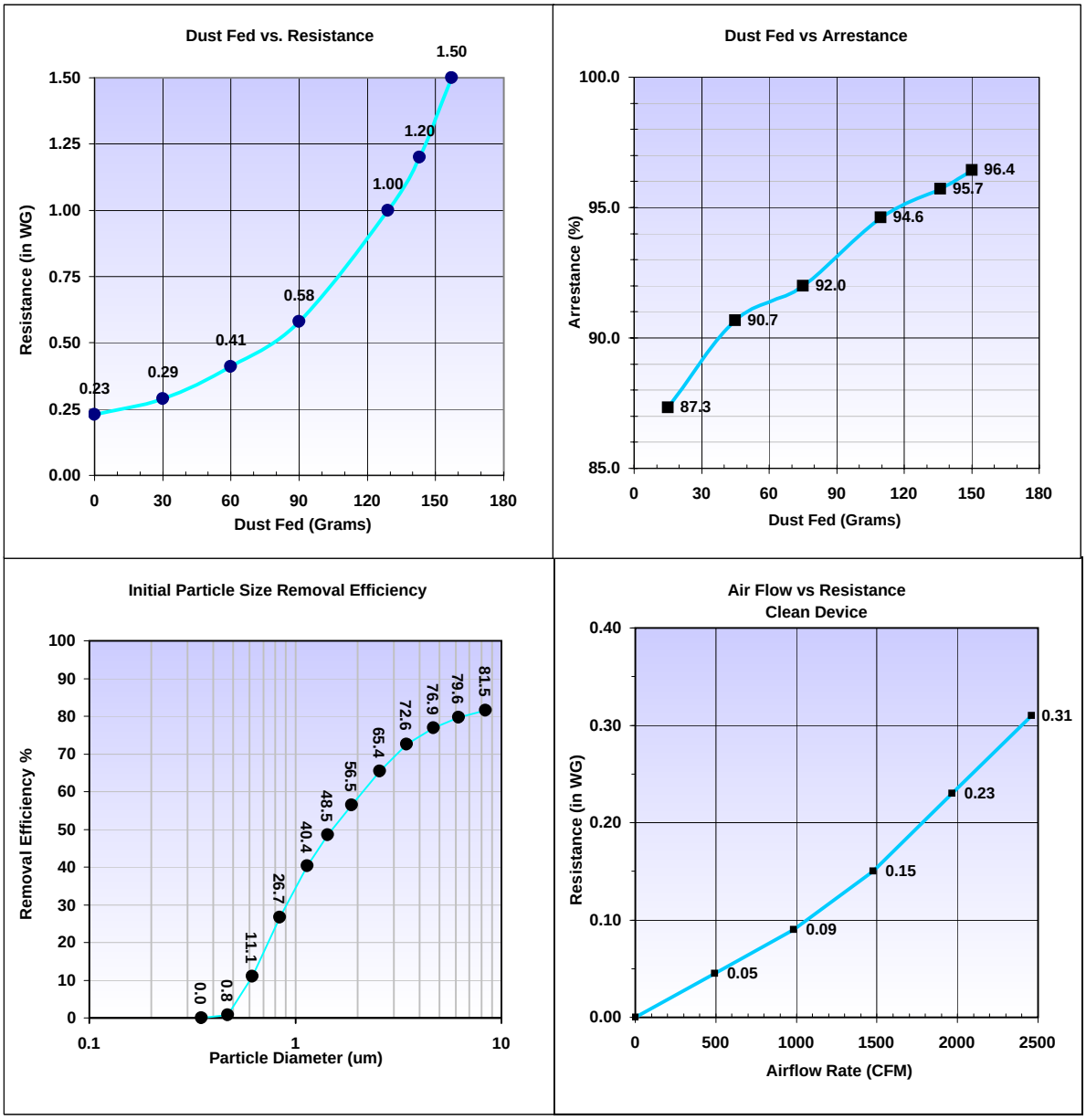
Comments Tested For: AAF International

	1.50" w.c.	1.20" w.c.	1.00" w.c.
Dust Holding Capacity (gms)	**145**	**131**	**118**
Average Arrestance (%)	**92.2**	**91.8**	**91.4**

Approval:

Blue Heaven Technologies
2820 S. ENGLISH STATION ROAD - LOUISVILLE, KY 40299
Tel: (502) 357-0132

Test No. 11-0105
Date: 26-Jan-11



Blue Heaven Technologies
2820 S. ENGLISH STATION ROAD - LOUISVILLE, KY 40299
Tel: (502) 357-0132

ASHRAE Standard 52.2-2007
Test Report

Test No. 11-0105
Date: 26-Jan-11

Data - Dust Fed / Arrestance

Dust Fed Increment (gms)	Total Dust Fed (gms)	Resistance (in WG)
0	0	0.23
30	30	0.29
30	60	0.41
30	90	0.58
39	129	1.00
14	143	1.20
14	157	1.50

Arrestance (%)	Dust Fed Plot Point (gms)
87.3	15
90.7	45
92.0	75
94.6	110
95.7	136
96.4	150

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	0.0
0.40 - 0.55	0.47	0.8
0.55 - 0.70	0.62	11.1
0.70 - 1.00	0.84	26.7
1.00 - 1.30	1.14	40.4
1.30 - 1.60	1.44	48.5
1.60 - 2.20	1.88	56.5
2.20 - 3.00	2.57	65.4
3.00 - 4.00	3.46	72.6
4.00 - 5.50	4.69	76.9
5.50 - 7.00	6.20	79.6
7.00 - 10.00	8.37	81.5

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.05
984	0.09
1476	0.15
1968	0.23
2460	0.31

Taken At 1" w.c. -1.0" Bow

Taken At 1.2" w.c. - 1 3/16" Bow

Taken At 1.5" w.c. - 1 5/8" Bow