



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

Date: 4-Feb-06

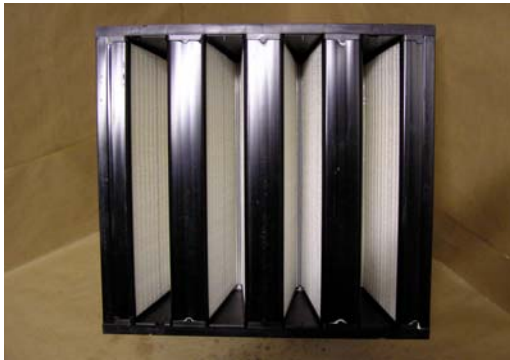
TEST NO.

06-116

ASHRAE Standard 52.2-1999 TEST REPORT Initial Efficiency / Resistance

Filter Description

Manufacturer	AAF International
Filter Model	VariCel VXL
Part Number	3018413-003
Generic Filter Type	ESSP
Nominal Dimensions (H x W x D)	24" x 24" x 12"
Pocket / Pleat Quantity	4 V
Media Type	Standard
Est. Gross Media Area	Standard
Adhesive Type	None



Test Conditions

Loading Dust Type	N A	Test Air Temp (degrees F.)	69
Barometric Pressure (In. Hg.)	29.06	Relative Humidity (%)	24

Test Results

Airflow Rate (CFM)	1968
Nominal Face Velocity (fpm)	492
Initial Resistance (in WG)	0.38
E1 (%) Initial Efficiency 0.30 - 1.0 um	88
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 @ 1968CFM
* If initial data is minimum	

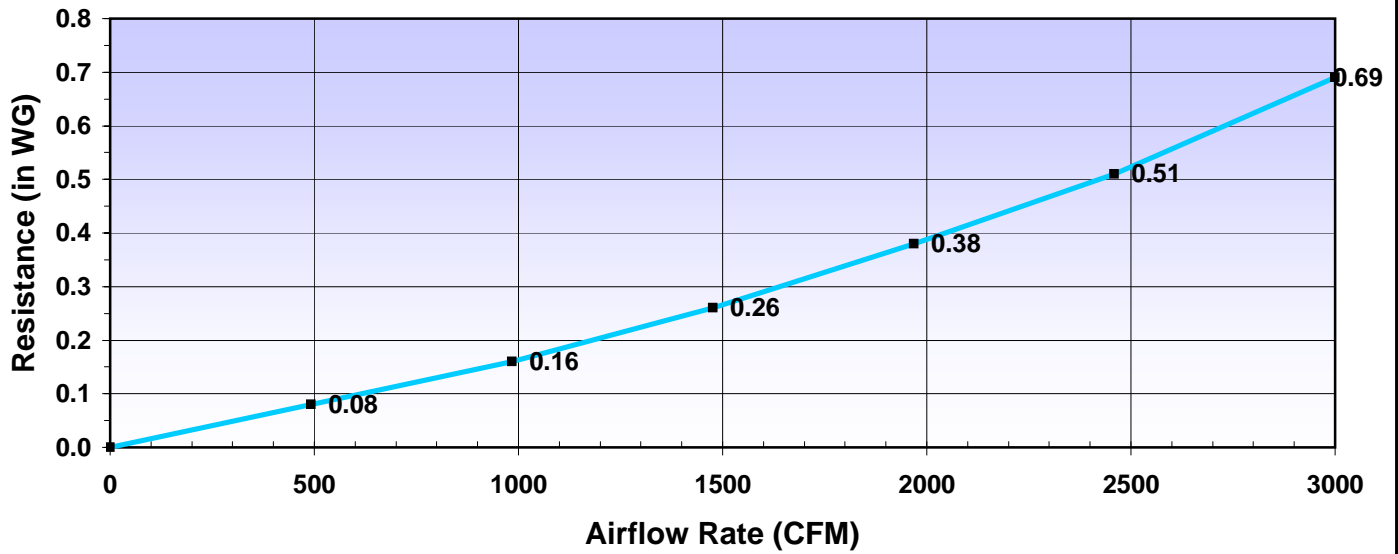
Comments Tested For: AAF International

Approval:

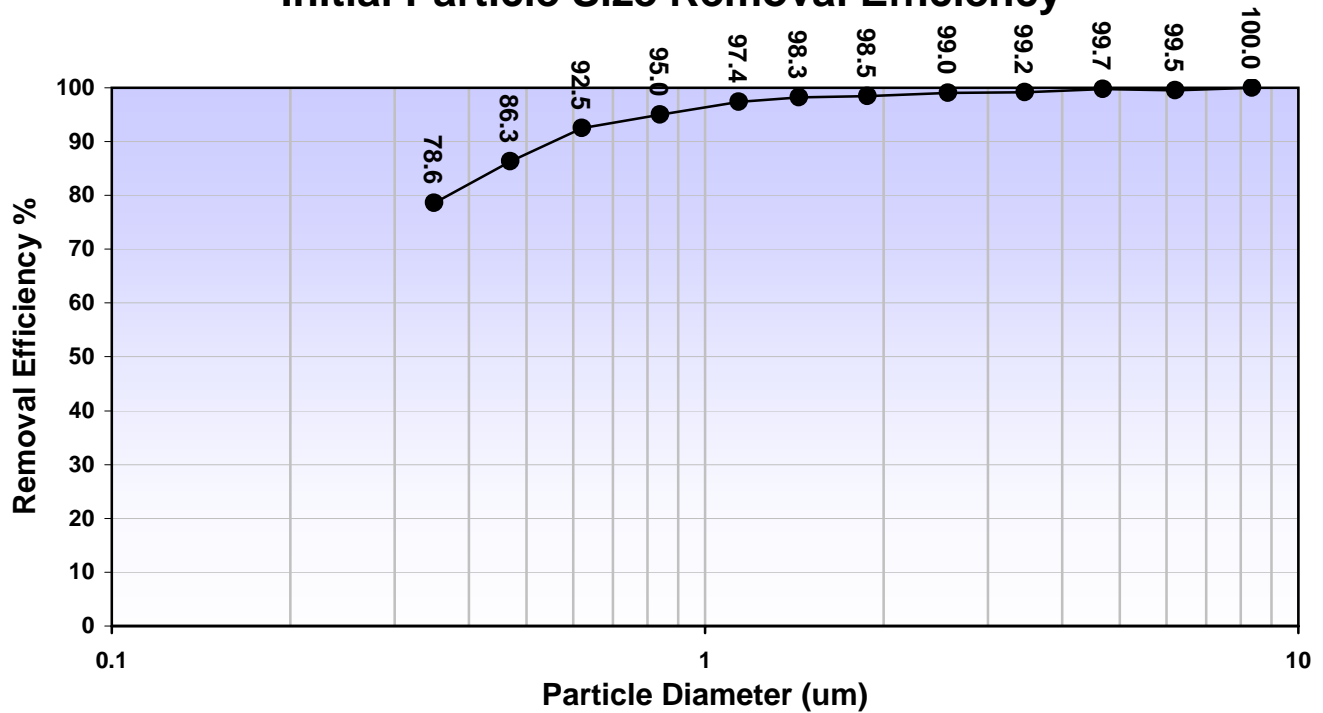
Rob B. Bullard

Test No. 06-116
Date: 04-Feb-06

**Air Flow vs Resistance
Clean Device**



Initial Particle Size Removal Efficiency



Blue Heaven Technologies

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

ASHRAE Standard 52.2 -1999**Test Report**

Test No. 06-116
Date: 04-Feb-06

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.08
984	0.16
1476	0.26
1968	0.38
2460	0.51
3000	0.69

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	78.6
0.40 - 0.55	0.47	86.3
0.55 - 0.70	0.62	92.5
0.70 - 1.00	0.84	95.0
1.00 - 1.30	1.14	97.4
1.30 - 1.60	1.44	98.3
1.60 - 2.20	1.88	98.5
2.20 - 3.00	2.57	99.0
3.00 - 4.00	3.46	99.2
4.00 - 5.50	4.69	99.7
5.50 - 7.00	6.20	99.5
7.00 - 10.00	8.37	100.0