



2820 S. English Station Road - Louisville, KY 40299

Tel: (502) 357-0132

Fax (502) 267-8379

Date: 14-Jun-10

TEST NO.

10-921A

ASHRAE Standard 52.2-2007 TEST REPORT

Filter Description

Manufacturer
Filter Model
Part Number
Generic Filter Type
Nominal Dimensions (H x W x D)
Pocket / Pleat Quantity
Media Type
Est. Gross Media Area
Adhesive Type

Filtration Group
FP V-Bank Minipleat
40051HP
FP - 15
24"x24"x12"
4V
Micro Fiberglass
192 Ft²
Polyurethane



Test Conditions

Loading Dust Type
Barometric Pressure (In. Hg.)

ASHRAE
29.86

Test Air Temp (degrees F.)
Relative Humidity (%)

76
41

Test Results

Airflow Rate (CFM) 1968

Nominal Face Velocity (fpm) 492

Initial Resistance (in WG) 0.34

Final Resistance (in WG) 1.50

E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um 87

E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um 99

E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um 100

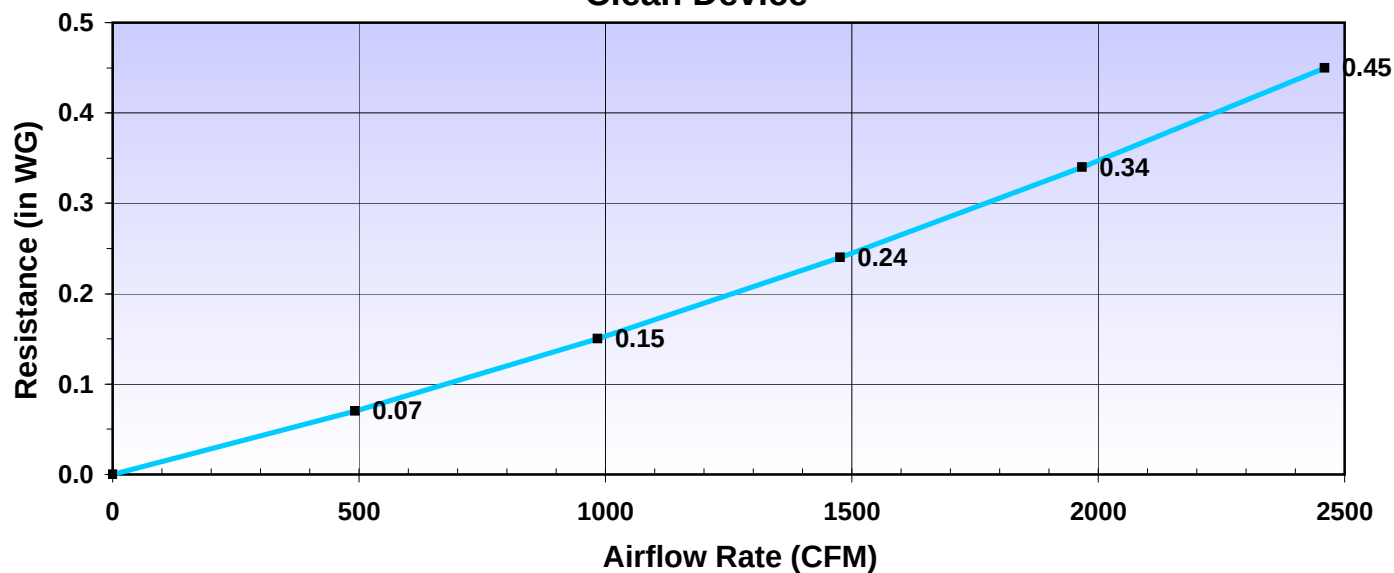
Minimum Efficiency Reporting Value (MERV) MERV 15 @ 1968 CFM

Comments Tested For: Filtration Group
Dust Fed (gms) to Final Resistance: 171
Dust Holding Capacity (gms) 171
Average Arrestance (%) 100

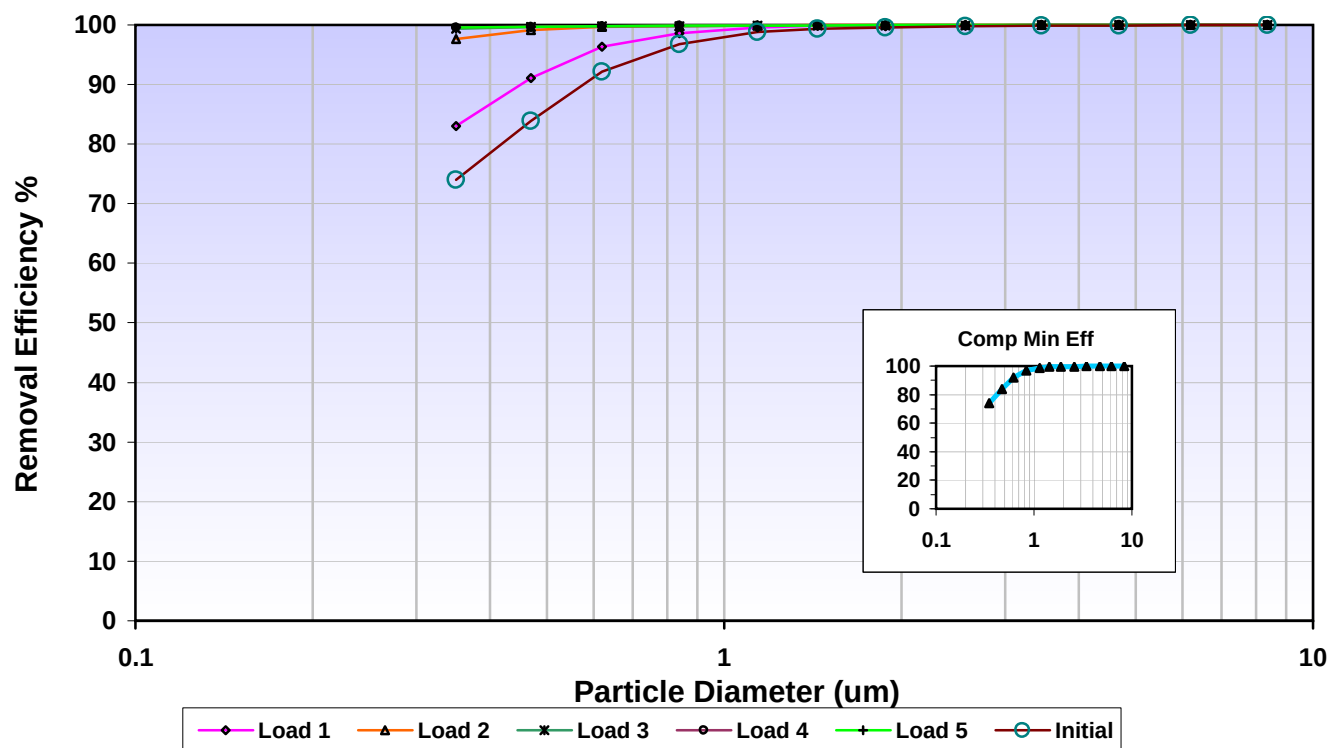
Approval:

Test No. 10-921A
Date: 14-Jun-10

Air Flow vs Resistance Clean Device



Particle Size Removal Efficiency



Blue Heaven Technologies

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

ASHRAE Standard 52-2007

Test Report

Test No. 10-921A
Date: 14-Jun-10

Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.07
984	0.15
1476	0.24
1968	0.34
2460	0.45

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)							
0.30 - 0.40	0.35	74.0	74.0	83.1	97.6	99.3	99.5	99.6	
0.40 - 0.55	0.47	83.9	83.9	91.0	99.2	99.6	99.7	99.7	
0.55 - 0.70	0.62	92.1	92.1	96.3	99.7	99.8	99.8	99.8	
0.70 - 1.00	0.84	96.8	96.8	98.6	99.8	99.8	99.9	99.9	
1.00 - 1.30	1.14	98.8	98.8	99.6	99.9	99.9	99.9	99.9	
1.30 - 1.60	1.44	99.3	99.3	99.8	100.0	99.9	99.8	99.9	
1.60 - 2.20	1.88	99.6	99.6	99.8	100.0	99.9	99.9	100.0	
2.20 - 3.00	2.57	99.7	99.7	99.9	100.0	99.9	99.9	100.0	
3.00 - 4.00	3.46	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
4.00 - 5.50	4.69	99.9	99.9	100.0	100.0	99.9	100.0	100.0	
5.50 - 7.00	6.20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
7.00 - 10.00	8.37	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
Resistance after Dust Load (in WG) ----->				0.38	0.63	0.92	1.21	1.50	
Dust Load (gms) ----->				10	64	104	139	171	