



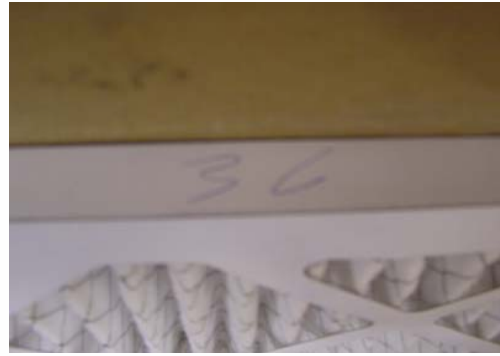
2820 S. English Station Road - Louisville, KY 40299
 Tel: (502) 357-0132 Fax (502) 267-8379

Date: 17-Dec-08 TEST NO. 08-1444Rev1

ASHRAE Standard 52.2-2007 TEST REPORT

Filter Description

Filter Model	MERV 13
Generic Filter Type	Pleat
Nominal Dimensions (H x W x D)	24" x 24" x 1"
Pocket / Pleat Quantity	36 Pleats
Media Type	Synthetic
Est. Gross Media Area	9 Ft ²
Adhesive Type	N A



Test Conditions

Loading Dust Type	ASHRAE	Test Air Temp (degrees F.)	74
Barometric Pressure (In. Hg.)	29.59	Relative Humidity (%)	38

Test Results

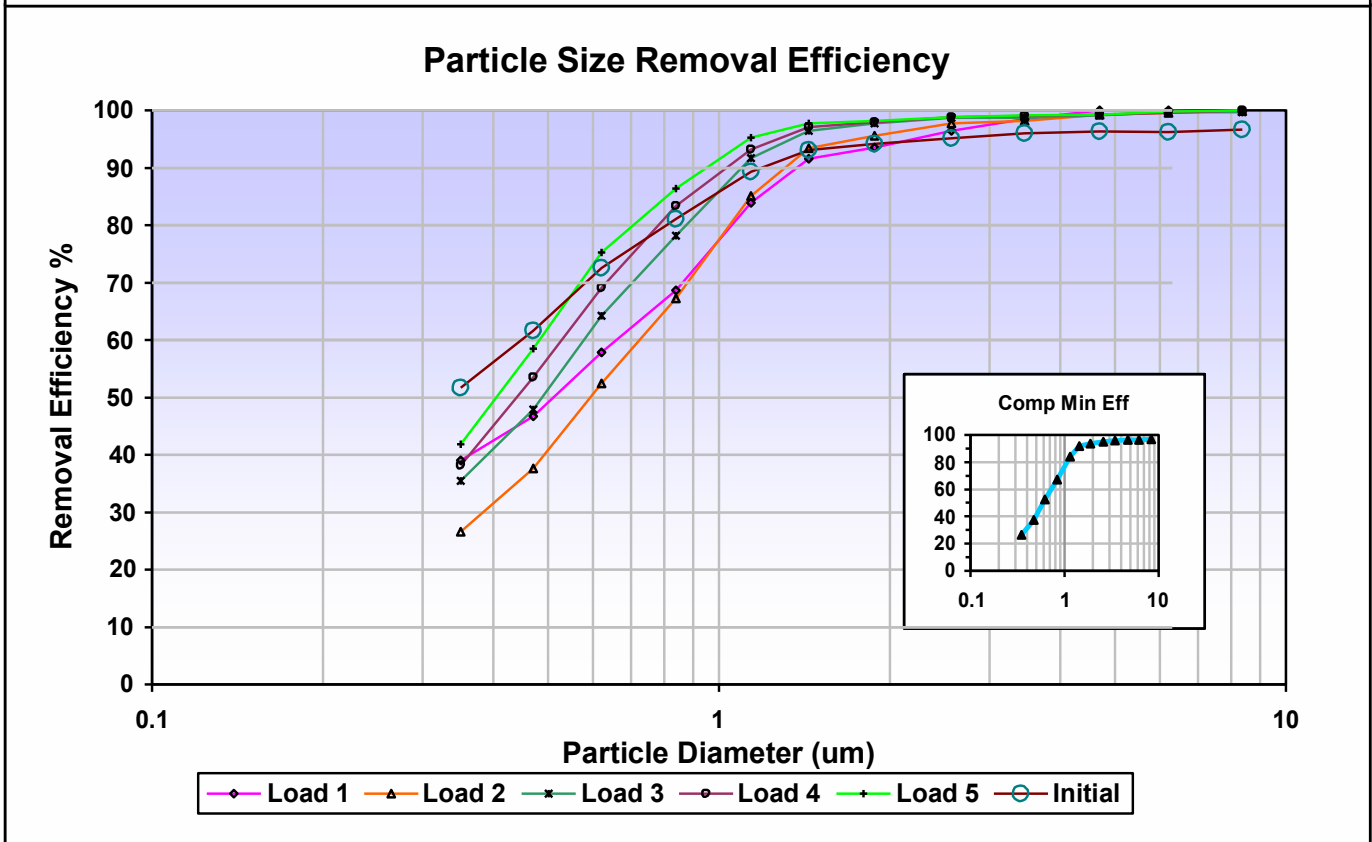
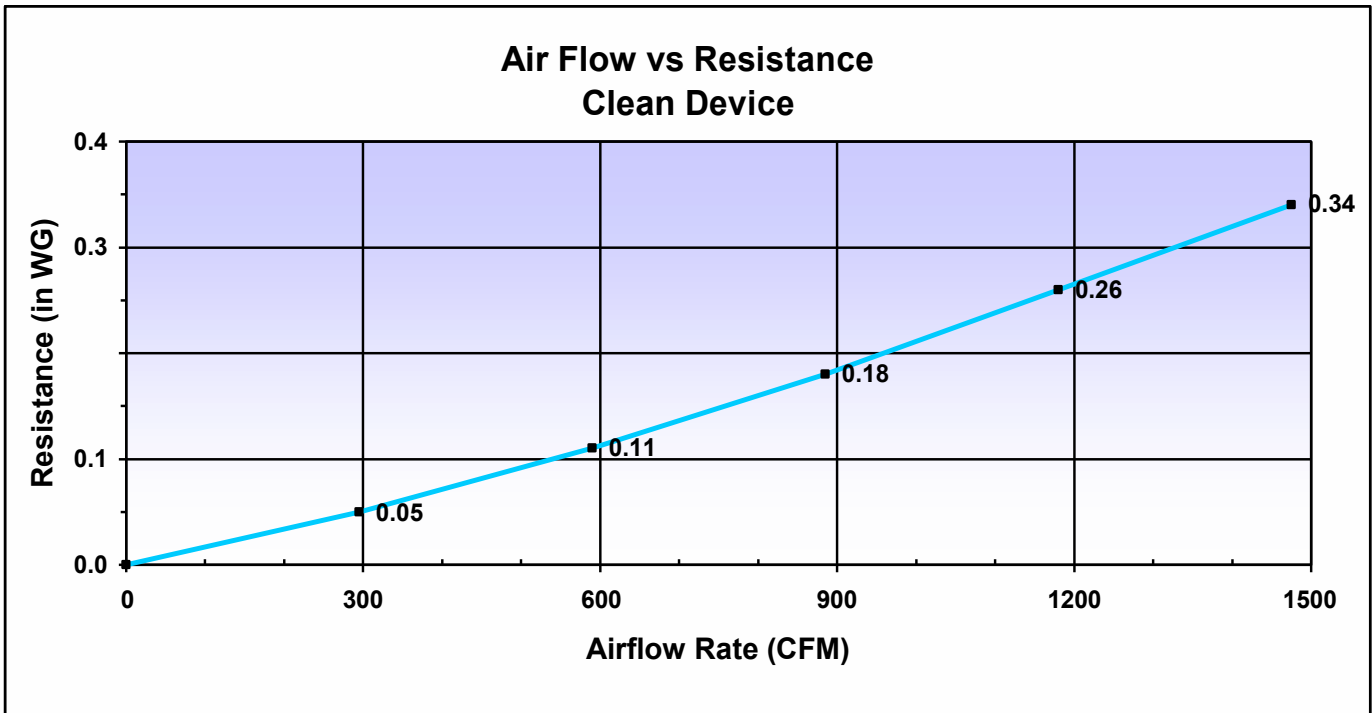
Airflow Rate (CFM)	1180
Nominal Face Velocity (fpm)	295
Initial Resistance (in WG)	0.26
Final Resistance (in WG)	1.00
E1 (%) Composite Minimum Avg. Efficiency 0.30 - 1.0 um	46
E2 (%) Composite Minimum Avg. Efficiency 1.0 - 3.0 um	91
E3 (%) Composite Minimum Avg. Efficiency 3.0 - 10.0 um	96
Minimum Efficiency Reporting Value (MERV)	MERV 13 @ 1180 CFM

Comments

Dust Fed (gms) to Final Resistance: 49

Approval:

R. B. Bullard



Blue Heaven Technologies

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ASHRAE Standard 52-2007

Test Report

Test No. 08-1444Rev1
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Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
295	0.05
590	0.11
885	0.18
1180	0.26
1475	0.34

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)							
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
0.30 - 0.40	0.35	26.6	51.7	39.0	26.6	35.5	38.2	41.9	
0.40 - 0.55	0.47	37.6	61.7	46.7	37.6	47.9	53.5	58.5	
0.55 - 0.70	0.62	52.4	72.6	57.9	52.4	64.2	69.1	75.2	
0.70 - 1.00	0.84	67.2	81.0	68.6	67.2	78.2	83.4	86.4	
1.00 - 1.30	1.14	83.9	89.3	83.9	85.1	91.7	93.2	95.2	
1.30 - 1.60	1.44	91.6	93.1	91.6	93.5	96.5	97.1	97.7	
1.60 - 2.20	1.88	93.5	94.2	93.5	95.6	97.7	98.0	98.2	
2.20 - 3.00	2.57	95.2	95.2	96.5	97.7	98.7	98.8	98.8	
3.00 - 4.00	3.46	96.0	96.0	98.5	98.2	98.8	99.0	99.1	
4.00 - 5.50	4.69	96.3	96.3	100.0	99.2	99.2	99.2	99.3	
5.50 - 7.00	6.20	96.2	96.2	100.0	99.6	99.7	99.6	99.8	
7.00 - 10.00	8.37	96.7	96.7	99.8	99.9	99.7	100.0	100.0	
		CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5	
Resistance after Dust Load (in WG) ----->				0.3	0.48	0.65	0.83	1.00	
Dust Load (gms) ----->				4	22	35	42	49	