



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

Date: 10-Mar-11 TEST NO. 11-0323

**ASHRAE Standard 52.2-2007  
 TEST REPORT  
 Initial Efficiency / Resistance  
 Post Neutralization Efficiency**

**Filter Description**

|                                |                     |
|--------------------------------|---------------------|
| Manufacturer                   | AAF International   |
| Filter Model                   | Perfect Pleat HC M8 |
| Part Number                    | N A                 |
| Generic Filter Type            | ESNSP-S             |
| Nominal Dimensions (H x W x D) | 24"x24"x2"          |
| Pocket / Pleat Quantity        | 29 Pleats           |
| Media Type                     | Standard            |
| Est. Gross Media Area          | Standard            |
| Adhesive Type                  | N A                 |



**Test Conditions**

|                               |       |                            |    |
|-------------------------------|-------|----------------------------|----|
| Loading Dust Type             | N A   | Test Air Temp (degrees F.) | 73 |
| Barometric Pressure (In. Hg.) | 30.11 | Relative Humidity (%)      | 30 |

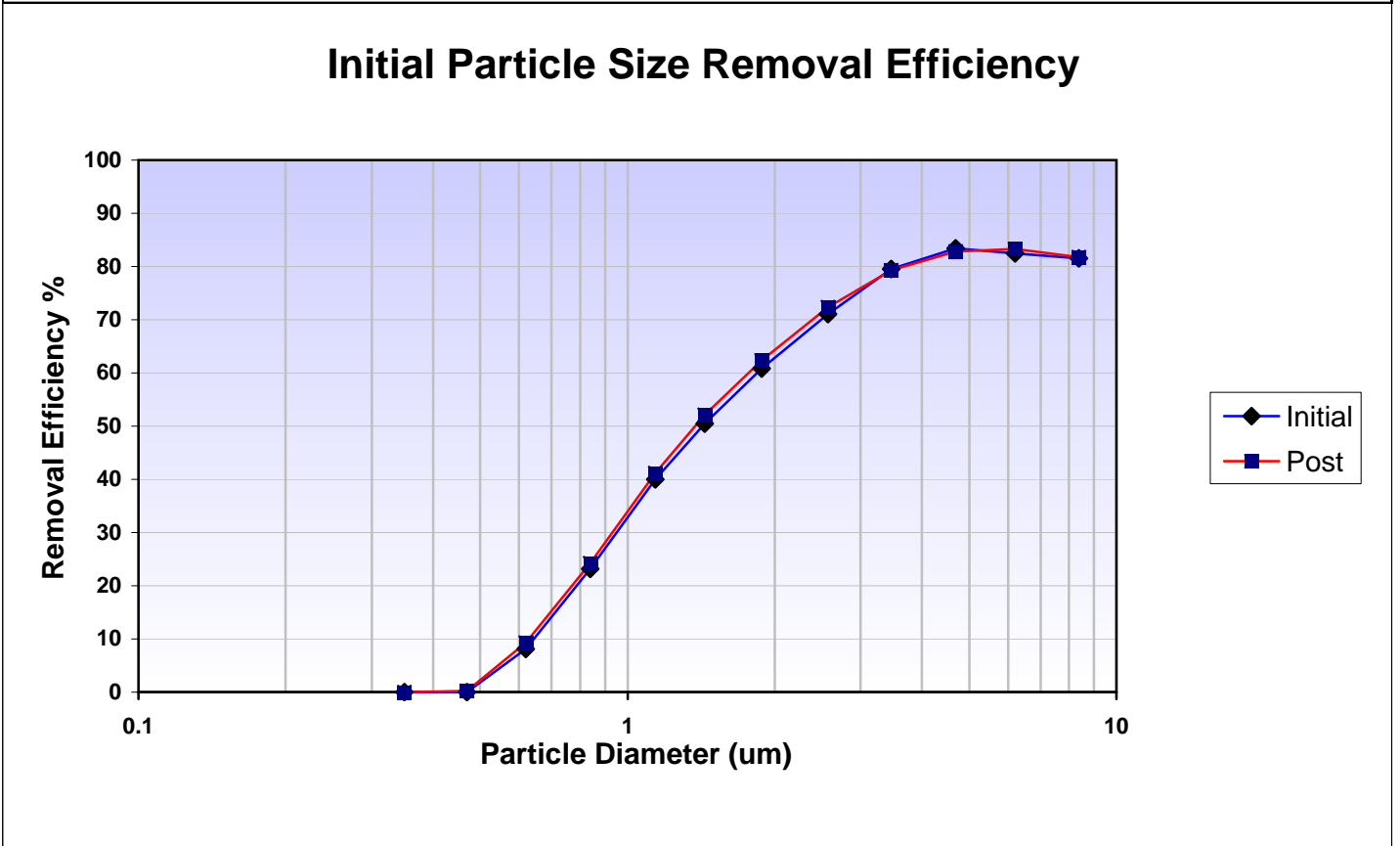
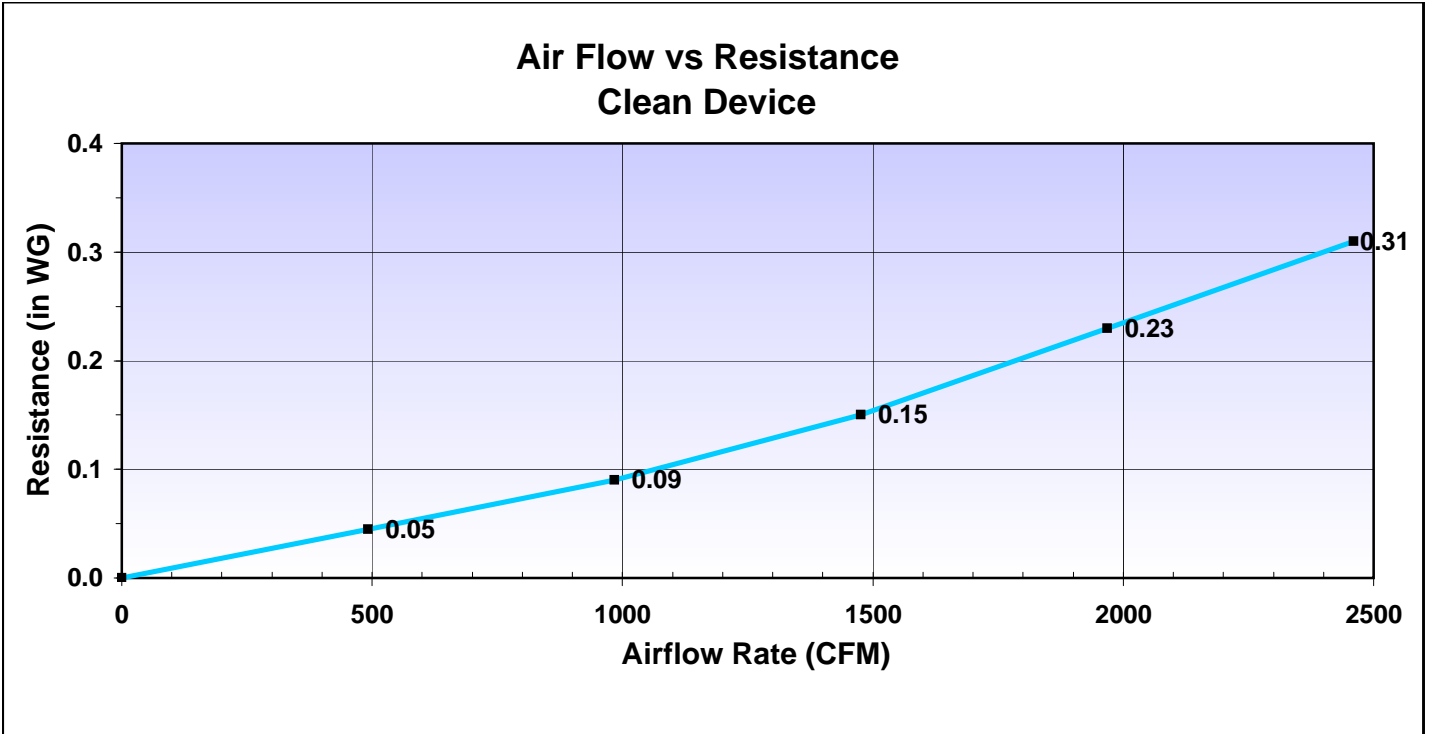
**Test Results**

|  |                          |
|--|--------------------------|
| <b>Airflow Rate (CFM)</b>                                    | <b>1968</b>              |
| <b>Nominal Face Velocity (fpm)</b>                           | <b>492</b>               |
| <b>Initial Resistance (in WG)</b>                            | <b>0.23</b>              |
| <b>E1 (%) Initial Efficiency 0.30 - 1.0 um</b>               | <b>8</b>                 |
| <b>E2 (%) Initial Efficiency 1.0 - 3.0 um</b>                | <b>56</b>                |
| <b>E3 (%) Initial Efficiency 3.0 - 10.0 um</b>               | <b>82</b>                |
| <b>Estimated * Minimum Efficiency Reporting Value (MERV)</b> | <b>MERV 8 @ 1968 CFM</b> |
| <b>* If initial data is minimum</b>                          |                          |

**Comments** Tested For: AAF International  
**Neutralization Via IPA Vapor**  
**Post Neutralization Efficiencies**

|                          |    |
|--------------------------|----|
| E1                       | 8  |
| E2                       | 57 |
| E3                       | 82 |
| <b>MERV 8 @ 1968 CFM</b> |    |

Approval:



**Blue Heaven Technologies**

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**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               |

**Data - Particle Removal Efficiency**

| Particle Size Range (um) | Geometric Mean Diam (um) | Initial Particle Removal Efficiency (%) | Post Neutralization Particle Removal Efficiency (%) |
|--------------------------|--------------------------|---|---|
| 0.30 - 0.40              | 0.35                     | 0.0                                     | 0.0   |
| 0.40 - 0.55              | 0.47                     | 0.0                                     | 0.2   |
| 0.55 - 0.70              | 0.62                     | 8.1                                     | 9.2   |
| 0.70 - 1.00              | 0.84                     | 23.2                                    | 24.2  |
| 1.00 - 1.30              | 1.14                     | 40.0                                    | 41.1  |
| 1.30 - 1.60              | 1.44                     | 50.5                                    | 52.2  |
| 1.60 - 2.20              | 1.88                     | 60.9                                    | 62.3  |
| 2.20 - 3.00              | 2.57                     | 71.0                                    | 72.4  |
| 3.00 - 4.00              | 3.46                     | 79.5                                    | 79.3  |
| 4.00 - 5.50              | 4.69                     | 83.4                                    | 82.9  |
| 5.50 - 7.00              | 6.20                     | 82.5                                    | 83.3  |
| 7.00 - 10.00             | 8.37                     | 81.5                                    | 81.7  |