



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 17-517.-3

Test Report - Vertical Test Duct

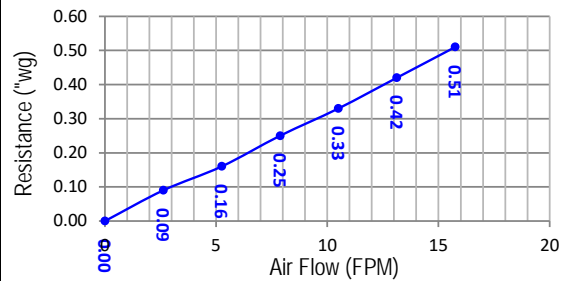
EN779:2012 Flat Sheet Media Efficiency Pre/Post IPA Discharged Test

Filter Description

| | |
|--------------------|---|
| Manufacturer | JP Air Tech |
| Filter Model | Flat Sheet Media |
| Part Number | JX243-B-ECOWEB |
| Test Area | 1.0 ft ² 0.0929 m ² |
| Media Type | Synthetic Media |
| Media Color | White |
| Sample Procurement | JP Air Tech |

Air Flow Versus Resistance

| Velocity (%) | FPM / cm/s | Pre IPA | | Post IPA | |
|--------------|------------|---------|-------|----------|-------|
| | | "WG | Pa | "WG | Pa |
| 0 | 0.0 / 0.0 | 0.09 | 22.4 | 0.08 | 19.9 |
| 25 | 2.6 / 1.3 | 0.16 | 39.8 | 0.15 | 37.3 |
| 50 | 5.3 / 2.7 | 0.25 | 62.2 | 0.23 | 57.2 |
| 75 | 7.9 / 4.0 | 0.33 | 82.1 | 0.31 | 77.1 |
| 100 | 10.5 / 5.3 | 0.42 | 104.5 | 0.39 | 97.0 |
| 125 | 13.1 / 6.7 | 0.51 | 126.9 | 0.48 | 118.2 |
| 150 | 15.8 / 8.0 | 0.00 | 0.0 | 0.00 | 0.0 |



Test Conditions

| | | |
|---------------------------------|------------------|------------|
| Test Air Flow Rate (FPM / cm/s) | 10.5 FPM | 5.3 cm/s |
| Challenge Aerosol | Aerosolized DEHS | |
| Counter Information | TSI 3330 | |
| Test Temperature (°F / °C) | 79 Deg F | 26.1 Deg C |
| Relative Humidity (%) | 53.3 | |
| Barometric Pressure (" Hg / Pa) | 29.29 in. Hg | 99.19 kPa |

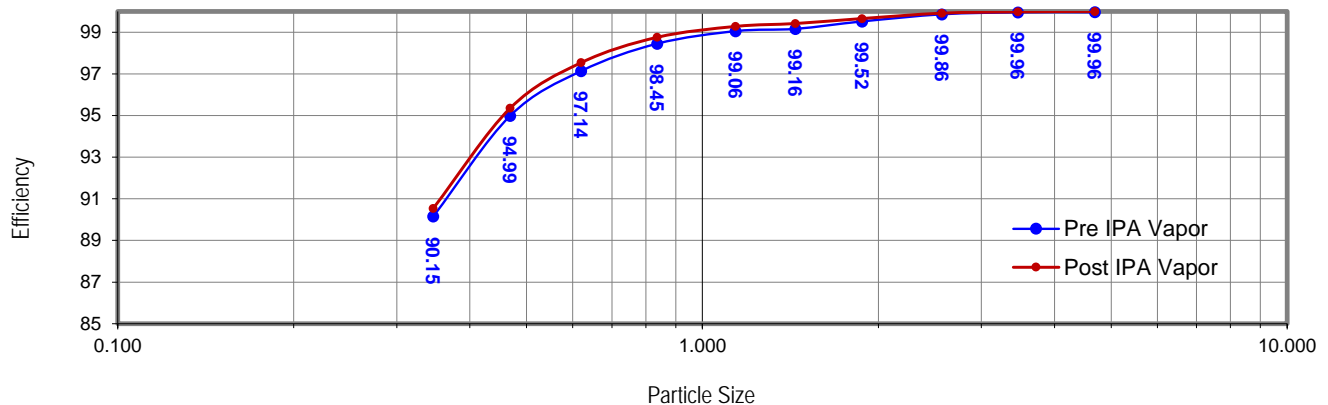
Test Results

| | | |
|----------------------------------|-------------------|--------------------|
| Initial Pressure Drop ("WG / Pa) | 0.25 "WG | 62 Pa |
| Initial Efficiency at 0.4 μm (%) | Untreated: 92.3 % | Discharged: 92.6 % |
| Filter Class | F9 | |

Photo

| Particle Size (μm) | Geometric Mean (μm) | Pre Discharge Efficiency (%) | Post Discharge Efficiency (%) |
|--------------------|---------------------|------------------------------|-------------------------------|
| 0.30 - 0.40 | 0.346 | 90.15% | 0.91 |
| 0.40 - 0.55 | 0.469 | 94.99% | 0.95 |
| 0.55 - 0.70 | 0.620 | 97.14% | 0.98 |
| 0.70 - 1.00 | 0.837 | 98.45% | 0.99 |
| 1.00 - 1.30 | 1.140 | 99.06% | 0.99 |
| 1.30 - 1.60 | 1.442 | 99.16% | 0.99 |
| 1.60 - 2.20 | 1.876 | 99.52% | 1.00 |
| 1.60 - 3.00 | 2.569 | 99.86% | 1.00 |
| 3.00 - 4.00 | 3.464 | 99.96% | 1.00 |
| 4.00 - 5.50 | 4.690 | 99.96% | 1.00 |

Efficiency vs. Particle Size



| | | | | |
|---------------------------|--------------------|--------------------------|-----------------|--|
| Requestor Information | Test Requestor | Mads Bodja | Phone: | +45 5495 0025 |
| | Company Name | JP Air Tech | Email: | mb@jpairtech.com |
| | Company Address | Skifervej 2, DK-4990 Sak | Date Requested | 8/29/2017 |
| Test Operator Information | Test Performed by: | Evan Sparks | Completion Date | 9/14/2017 |