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**ASHRAE Air Filter
 Test Report**

Report No.

GLT 212

Date:

3-Mar-10

Page:

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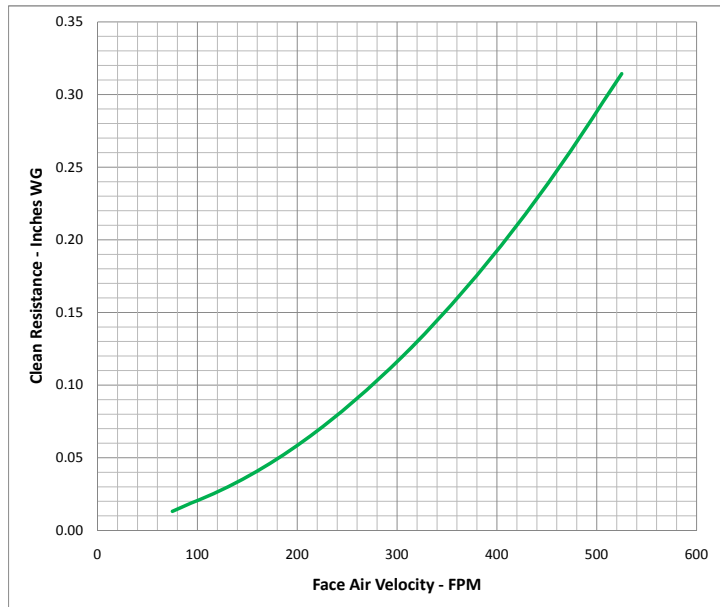
52.2-2007 ASHRAE Test -- Resistance Traverse

| Filter Description | Test Conditions | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------------|--|---------------------|-----|-----|-----|----|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|
| Manufacturer: PERMATRON Product Name: Model/Style Code: DuraLoft 1 Inch Nominal Dimensions: (inches) 24w x 24w x 1d Product Description: Polymer frame; front and rear polymer grids; multi-layer polymer screen media Number of Filter Panels: 1 Pleat Quantity (visible): not applicable Pocket Quantity: not applicable Media Type: polymer Media Color: Black Effective Media Area: 4 sq. ft. Type of Dust Adhesive: none Amount of Dust Adhesive: not applicable Filter Procurement Method: Provided by Manufacturer | Air Flow (CFM) ---- Face Velocity (FPM) ---- Air Temperature (°F) 63 Relative Humidity (%) 36 Barometric Pressure (In. HG) 29.23 Type of Test Aerosol: n/a Particle Counter: n/a Filter Loading Dust: None | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Results | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Air Flow vs Filter Resistance | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th colspan="2">Air Flow</th> <th rowspan="2">Resistance - In. WG</th> </tr> <tr> <th>CFM</th> <th>FPM</th> </tr> </thead> <tbody> <tr><td>300</td><td>75</td><td>0.01</td></tr> <tr><td>600</td><td>150</td><td>0.04</td></tr> <tr><td>900</td><td>225</td><td>0.07</td></tr> <tr><td>1200</td><td>300</td><td>0.12</td></tr> <tr><td>1500</td><td>375</td><td>0.17</td></tr> <tr><td>1800</td><td>450</td><td>0.24</td></tr> <tr><td>2100</td><td>525</td><td>0.31</td></tr> </tbody> </table> | Air Flow | | Resistance - In. WG | CFM | FPM | 300 | 75 | 0.01 | 600 | 150 | 0.04 | 900 | 225 | 0.07 | 1200 | 300 | 0.12 | 1500 | 375 | 0.17 | 1800 | 450 | 0.24 | 2100 | 525 | 0.31 |
| Air Flow | | Resistance - In. WG | | | | | | | | | | | | | | | | | | | | | | | | | |
| CFM | FPM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 75 | 0.01 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 150 | 0.04 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 225 | 0.07 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1200 | 300 | 0.12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1500 | 375 | 0.17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1800 | 450 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2100 | 525 | 0.31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Additional Information: | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Photograph of Air Entering Side of Filter



Filter Resistance vs Air Flow



Photograph of Label/Markings



Comments:

Approval: Monroe A. Britt
 3-Mar-10