Pleated Filters for Specialized Applications

Type DP-High Efficiency

Bio-Pure Antimicrobial Treated Filters

Type DP-SA

Type DP1

Type DP-GT

- Heavy Duty
- High Temperature
- Side Access
- High Efficiency
- Antimicrobial Treated
Pleated Filters
For Specialized Applications

Frame Construction
All Airguard pleated filters (except High Temperature models) are assembled with a mating two piece die cut frame forming a double thick wall around the entire perimeter of the filter.

Diagonal support members are an integral part of the die cut frame on both sides. They are bonded to the pleat tips at all points of contact to maintain pleat shape, prevent fluttering in operation and increase filter rigidity.

Type DP 1
MERV 8
1”, 2” and 4”Thicknesses
DP1 Pleat Count 14.0 Per In.- 2” Sizes
MX1 Pleat Count 10.0 Per In.- 2” Sizes

Frame Construction - Two piece die cut, fire retardant fiber board.
Media - Ultrafine microglass media with an expanded metal grid laminated to the air leaving side.

Type DP-HT (High Temperature)
For Temperatures up to 500°F
MERV 8
1”, 2” and 4”Thicknesses

Classified per UL Standard 900

Frame Construction - Aluminized steel channel with a heavy duty expanded metal screen on the air leaving side to support the media pack inside the frame.
Media - Ultrafine microglass fiber with a high temperature woven scrim backing on the air leaving side. The pleats are formed with an expanded metal grid.
Applications - For use in high temperature applications with continuous operating conditions up to 500°F.

Type DP-High Efficiency
Three efficiencies DP-65 - 50-55%
DP-85 - 75-80%; DP-95 - 80-85%
2” and 4” Thicknesses
Classified per UL Standard 900

Frame Construction - Two piece die cut, high wet strength beverage board.
Media - Microglass fiber with an expanded metal grid laminated to the air leaving side to shape the pleats.
Applications - For use where higher efficiency filtration is required. Recommended for systems operating at low air flow velocities (4”):
DP-65 - 500 FPM; DP-85 - 250 FPM; DP-95 - 125 FPM.
Type DP-GT
Heavy Duty Construction
MERV 8
2” and 4” Thicknesses
Classified per UL Standard 900

Frame Construction - Two piece die cut, high wet strength beverage board. GT filters are reinforced with pleat stabilizing fingers to maintain pleat spacing in difficult operating conditions.
Media - 100% nonwoven, thermally bonded synthetic fibers. The pleats are formed with a rigid welded wire grid laminated to the air leaving side to increase pleat stability.
Applications - For use in higher velocity systems or difficult operating conditions, including turbulence or heavy dirt loading.

Type DP-SA (Side Access)
MERV 8
4” Thick
Classified per U.L. Standard 900

Frame Construction - High wet strength beverage board with 3/4” thick header on the air entering side.
Media - 100% nonwoven, thermally bonded synthetic fibers. The pleats are formed with a rigid welded wire grid laminated to the air leaving side to increase pleat stability.
Applications - For use in higher velocity systems or difficult operating conditions, including turbulence or heavy dirt loading.

Powerguard-SA
MERV 11
4” Thick
Classified per UL Standard 900

Frame Construction - High wet strength beverage board with 3/4” thick header on the air leaving side.
Media - Needled, electrostatically charged synthetic fiber with an expanded metal grid laminated to the air leaving side.
Applications - For use in side access housings with a 1” track.

Bio•Pure Antimicrobial Treated Filters
MERV 7
2” and 4” Thicknesses
Bio•Pure Pleat Count (14.0 per inch - 2” sizes)
Bio•Pure Max Pleat Count (10.0 per inch - 2” Sizes)
Classified per UL Standard 900

Frame Construction - Two piece die cut, high wet strength beverage board.
Media - Blend of cotton and polyester fibers with an antimicrobial treatment added. The pleats are formed with an expanded metal grid.
Applications - For use in applications where there is a need to reduce the growth of microorganisms on the filters.
Pleated Filters
For Specialized Applications

Performance Data:

<table>
<thead>
<tr>
<th>Type DP 1</th>
<th>Economy Pleat Count</th>
<th>Type DP-HT</th>
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<tbody>
<tr>
<td>Pleat Count</td>
<td>1&quot;</td>
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<tr>
<td>Initial Resistance (In. W.G.)</td>
<td></td>
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</tr>
<tr>
<td>@ 300 FPM</td>
<td>.28&quot;</td>
<td>.25&quot;</td>
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<tr>
<td>@ 500 FPM</td>
<td>N/R</td>
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<tr>
<td>MERV</td>
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<td>8</td>
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<tr>
<td>Recommended Final Resistance (In. W.G.)</td>
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<td>1.2&quot;</td>
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Type DP High Efficiency

<table>
<thead>
<tr>
<th>Type DP High Efficiency</th>
<th>DP-65</th>
<th>DP-85</th>
<th>DP-95</th>
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<td>Pleat Count</td>
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<td>4&quot;</td>
<td>2&quot;</td>
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<tr>
<td>Initial Resistance (In. W.G.)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>@ 125 FPM</td>
<td>.21&quot;</td>
<td>.10&quot;</td>
<td>.40&quot;</td>
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<tr>
<td>@ 250 FPM</td>
<td>.39&quot;</td>
<td>.23&quot;</td>
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<td>@ 400 FPM</td>
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<td>.42&quot;</td>
<td>N/R</td>
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<tr>
<td>@ 500 FPM</td>
<td>N/R</td>
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<td>N/R</td>
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<tr>
<td>Average Arrestance</td>
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<td>90-95%</td>
<td>90-95%</td>
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<tr>
<td>Average Efficiency</td>
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<td>75-80%</td>
<td>75-80%</td>
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<tr>
<td>MERV</td>
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<td>12</td>
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<tr>
<td>Recommended Final Resistance (In. W.G.)</td>
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Side Access Models

<table>
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<th>Side Access Models</th>
<th>Bio-Pure</th>
<th>Type DP-GT</th>
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<tbody>
<tr>
<td></td>
<td>Standard Pleat Count</td>
<td>Economy Pleat Count</td>
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<tr>
<td>DP-SA</td>
<td>Powerguard</td>
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<tr>
<td>Initial Resistance (In. W.G.)</td>
<td>1&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>@ 300 FPM</td>
<td>.09&quot;</td>
<td>.15&quot;</td>
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<tr>
<td>@ 500 FPM</td>
<td>.21&quot;</td>
<td>.30&quot;</td>
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<tr>
<td>MERV</td>
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<td>11</td>
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<tr>
<td>Recommended Final Resistance (In. W.G.)</td>
<td>1.2&quot;</td>
<td>1.2&quot;</td>
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</table>

(1) All performance data is based on the ASHRAE 52.2 Test Method, Test velocity 295 FPM for 24x24x1 and 492FPM for 24x24x2 and 24x24x4 nominal size filters.
(2) Filters may be installed with the pleats either vertical (preferred) or horizontal.