The PerfectPleat ULTRA filter is designed to consistently increase efficiency throughout the service life of the filter. The PerfectPleat ULTRA filter has approximately 25% more media than our standard capacity filter and also incorporates an antimicrobial. The antimicrobial is applied to the media to preserve the integrity of the media throughout the filter’s useful life by inhibiting microbial growth.

PerfectPleat ULTRA filters have an initial MERV 8 rating respectively, but the efficiency increases significantly when dust holding begins. PerfectPleat ULTRA filters have distinctive self-supporting characteristics that allow a pleating pattern, which promotes airflow and maximizes Dust Holding Capacity (DHC). The PerfectPleat ULTRA filter is ideal for applications where pleated filters are currently in use and higher efficiencies are desired or required. It is also suited to high moisture conditions where bacterial growth may be likely to occur on air filters.

**Superior Design and Construction**

The perimeter frame is constructed from the highest wet-strength 28 pt. beverage carrier board, securely bonded to the media pack. The 1″ model employs three supporting straps on the air entering and air leaving sides of the filter to control pleat spacing and support the media pack in the perimeter frame.

Support straps on the air entering side are used in combination with uniquely designed pleat stabilizers on the air-leaving side of the 2″ model to provide additional strength. The support straps and pleat stabilizers ensure integrity against turbulent airflow. The 2″ filter resists crushing and abuse and provides excellent lateral stability for installation in side-access systems.

The 4″ model utilizes a two piece die cut frame with integral pleat spacers on the air leaving side. Pleat spacing is controlled by straps bonded to the air entering side and the multiple rows of pleat spacers on the air leaving side. The pleat spacers also ensure the pleats remain open during use, maximizing filter life.

**DuraFlex® Media—Patented Media Design**

Uniform size virgin fibers are assembled in closely controlled blends to create a media that is both self-supporting and consistent in performance. When pleated, DuraFlex media will hold its shape without the wire support characteristic of conventional pleated filters. That means no potential for the formation of rust and safer handling. With the superior resiliency of DuraFlex media and no need for wire support, PerfectPleat ULTRA filters can sustain significant abuse and maintain their shape and pleat spacing. The absence of wire also makes the filter totally incinerable, which can simplify disposal.
PerfectPleat® ULTRA Filters

Performance Data

<table>
<thead>
<tr>
<th>Filter</th>
<th>Pleats Per Linear Foot</th>
<th>Rated Initial Resistance (in. w.g.) 300 FPM</th>
<th>Recommended Final Resistance (in. w.g.)</th>
<th>ASHRAE 52.2 MERV</th>
<th>Continuous Operating Temperature Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; PerfectPleat ULTRA</td>
<td>15</td>
<td>.23</td>
<td>.42</td>
<td>1.0</td>
<td>8</td>
</tr>
<tr>
<td>2&quot; PerfectPleat ULTRA</td>
<td>15</td>
<td>.12</td>
<td>.23</td>
<td>1.0</td>
<td>8</td>
</tr>
<tr>
<td>4&quot; PerfectPleat ULTRA</td>
<td>11</td>
<td>.12</td>
<td>.25</td>
<td>1.0</td>
<td>8</td>
</tr>
</tbody>
</table>

All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

Underwriters Laboratories Classification – PerfectPleat ULTRA filters are UL Classified. Testing was performed according to UL Standard 900.

Composite Minimum Efficiency Curve

Initial Resistance vs. Filter Face Velocity

Energy savings may be realized by operating the PerfectPleat ULTRA filters to a lower final resistance. Contact your local AAF Flanders representative for a Total Cost of Ownership analysis for your specific application.

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AF Flanders has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

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