AMORAIR

Mini-Pleated Filter

(AG-MP)

- Compact design
- Mini-pleated filtration with no separators
- Energy efficient with low pressure drop
- Easy installation
- 100% factory tested
- Various sealing options
- Available for custom sizes
- Efficiency: MERV 11 through ULPA

The Amorair Mini-Pleated Filter series is specifically engineered to meet the highest standards for indoor air quality. These filters are widely utilized across industries such as semiconductors, pharmaceuticals, and life sciences.

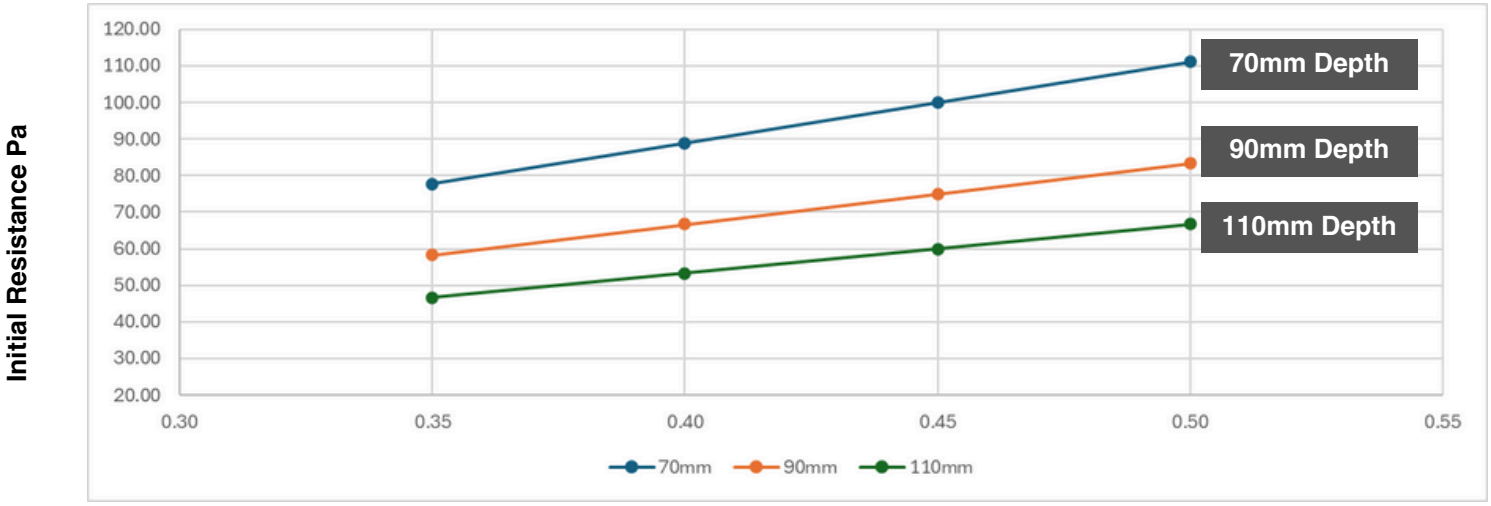
Designed for versatility, Mini-Pleated Filters serve as terminal filters in cleanrooms to effectively control particulate matter. They are also commonly integrated into cleanroom equipment, including fan filter units and laminar flow hoods, ensuring optimal performance in controlled environments.

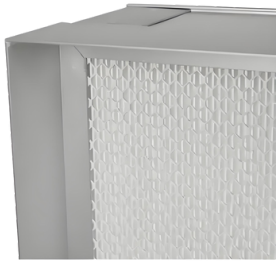
Filter Depth (mm)	Rated Face Speed m/s	Initial Resistance Pa (E11)	Initial Resistance Pa (H13)	Initial Resistance Pa (H14)	Initial Resistance Pa (U15)	Initial Resistance Pa (U16)
70	0.45	60	100	110	120	140
90	0.45	47	75	80	90	110
110	0.45	35	60	65	70	85

Filter Depth (inch)	Rated Face Speed FPM	Initial Resistance in W.G. (95% DOP)	Initial Resistance in W.G. (99.95%)	Initial Resistance in W.G. (99.995%)	Initial Resistance in W.G. (99.9995%)	Initial Resistance in W.G. (99.99995%)
2.75	89	0.24	0.40	0.44	0.48	0.56
3.75	89	0.19	0.30	0.32	0.36	0.44
4.33	89	0.14	0.24	0.26	0.28	0.34

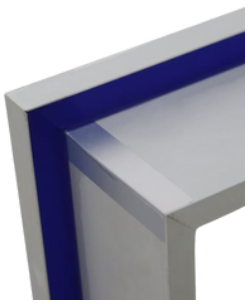
Performance Data

Initial Resistance vs. Air Velocity, H13 Glass Fiber Media 99.95% Minimum Efficiency On 0.3 Micrometer Particles

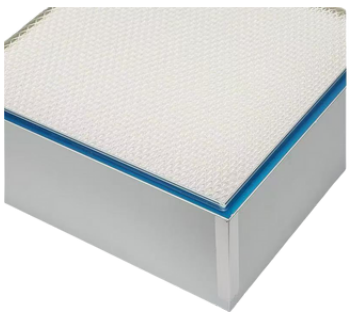




Knife Edge



Side Gel-seal



Top Gel-seal

Standard

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Part Number Configuration

AGMP H13 61061070 G 3 GS 0 A

(1) (2) (3) (4)(5) (6) (7)(8)

(1) Model Number: AG-MP	**(5) Faceguard:** 0: None, 1: Upstream, 2: Downstream, 3: Both side
(2) Efficiency EN779 / EN 1822: F06, F07, E10, E12, H13, H14, U15, U16	**(6) Frame Media:** GS: Galvanized Steel, SS: Stainless Steel, AL: Aluminum, PL: Plastic
(3) Dimensions: Width * Height * Depth (Unit MM) 610*610*70 (Example)	**(7) Gasket:** 0: None, 1: Upstream, 2: Downstream, 3: Both side
(4) Filter Media: G: Glass Fiber S: Synthetic	**(8) Seal design:** A: Gasket, B: Top gel-seal, C: Side gel-seal, D: Knife-edge

<table>
<tr><td colspan="4">Ashare MERV</td><td colspan="4">ISO 16890: 2016</td><td>EN</td><td colspan="3">EN779</td><td>EN1822</td></tr>
<tr><td></td><td colspan="3">Composite Average Oarticle Size Efficiency (Em) % in Size Range Um</td><td colspan="3">Average of initial and discharged efficiency Em=(Ei+Ed)/2</td><td>Initial Efficiency(Ei)</td><td>Initial Arrestance (Am)</td><td></td><td>Average Arrestance (Am) of Synthetic Dust</td><td>Average Efficiency (Em) at 0.4um</td><td>Minimum Efficiency (Em) at 0.4Um</td><td>Initial Efficiency (Ei) at MPPS (Typically 0.08-0.15um)</td></tr>
<tr><td></td><td>Range 1</td><td>Range 2</td><td>Range 3</td><td>ePM1%</td><td>ePM2.5%</td><td>ePM10%</td><td>Coarse</td><td></td><td>Test Final dP 250 Pa</td><td colspan="2">Test final dP 450 Pa</td><td></td></tr>
<tr><td></td><td>0.3-1.0</td><td>1.0-3.0</td><td>3.0-10.0</td><td>0.3-1.0</td><td>1.0-3.0</td><td>3.0-10.0</td><td>ISO Fine Dust</td><td></td><td>%</td><td>%</td><td>%</td><td>%</td></tr>
<tr><td>1</td><td></td><td></td><td>Em<20</td><td colspan="3"></td><td rowspan="4">Am<50 Final dP 200Pa</td><td>G1</td><td>50<=Am<=65</td><td></td><td></td><td></td></tr>
<tr><td>2</td><td></td><td></td><td>Em<20</td><td colspan="3" rowspan="3"></td><td rowspan="3">G2</td><td rowspan="3">65<=Am<=80</td><td></td><td></td><td></td></tr>
<tr><td>3</td><td></td><td></td><td>Em<20</td><td></td><td></td><td></td></tr>
<tr><td>4</td><td></td><td></td><td>Em<20</td><td></td><td></td><td></td></tr>
<tr><td>5</td><td></td><td></td><td>Em<20</td><td colspan="3" rowspan="3"></td><td rowspan="3">Am>=50 Final dP 200Pa</td><td rowspan="2">G3</td><td rowspan="2">80<=Am<=90</td><td></td><td></td><td></td></tr>
<tr><td>6</td><td></td><td></td><td>Em>=20</td><td></td><td></td><td></td></tr>
<tr><td>7</td><td></td><td></td><td>Em>=50</td><td colspan="3" rowspan="2"></td><td rowspan="2">G4</td><td rowspan="2">Am<=90</td><td></td><td></td><td></td></tr>
<tr><td>8</td><td></td><td>Em>=20</td><td>Em>=70</td><td></td><td></td><td></td></tr>
<tr><td>9</td><td></td><td>Em>=35</td><td>Em>=75</td><td colspan="2" rowspan="2"></td><td rowspan="2">Ei>50</td><td rowspan="2"></td><td rowspan="2">M5 (F5)</td><td rowspan="2"></td><td rowspan="2">40<=Em<=60</td><td rowspan="2"></td><td></td></tr>
<tr><td>10</td><td></td><td>Em>=50</td><td>Em>=80</td><td></td></tr>
<tr><td>11</td><td>Em>=20</td><td>Em>=65</td><td>Em>=85</td><td rowspan="2"></td><td rowspan="2">Em>=50</td><td rowspan="2">Ei>70</td><td rowspan="2"></td><td rowspan="2">F6</td><td rowspan="2"></td><td rowspan="2">60<=Em<=80</td><td rowspan="2"></td><td></td></tr>
<tr><td>12</td><td>Em>=35</td><td>Em>=80</td><td>Em>=90</td><td></td></tr>
<tr><td>13</td><td>Em>=50</td><td>Em>=85</td><td>Em>=90</td><td>Em>50</td><td>Em>65</td><td>Ei>80</td><td></td><td>F7</td><td></td><td>80<=Em<=90</td><td>Emin>=35</td><td></td></tr>
<tr><td>14</td><td>Em>=75</td><td>Em>=90</td><td>Em>=95</td><td>Em>70</td><td>Em>80</td><td>Ei>90</td><td></td><td>F8</td><td></td><td>90<=Em<=95</td><td>Emin>=55</td><td></td></tr>
<tr><td>15</td><td>Em>=85</td><td>Em>=90</td><td>Em>=95</td><td rowspan="3">Em>80</td><td colspan="3" rowspan="3"></td><td>F9</td><td></td><td>95<=Em</td><td>Emin>=70</td><td></td></tr>
<tr><td rowspan="2">16</td><td rowspan="2">Em>=95</td><td rowspan="2">Em>=95</td><td rowspan="2">Em>=95</td><td>E10</td><td colspan="3"></td><td rowspan="2">Ei>=85</td></tr>
<tr><td>E11</td><td colspan="3"></td></tr>
<tr><td>HEPA</td><td rowspan="5">N/A</td><td rowspan="5">N/A</td><td rowspan="5">N/A</td><td rowspan="5">N/A</td><td rowspan="5">N/A</td><td rowspan="5">N/A</td><td rowspan="5">N/A</td><td>E12</td><td colspan="3"></td><td>Ei>=99.5</td></tr>
<tr><td></td><td>H13</td><td colspan="3"></td><td>Ei>=99.95</td></tr>
<tr><td>ULPA</td><td>H14</td><td colspan="3"></td><td>Ei>=99.995</td></tr>
<tr><td></td><td>U15</td><td colspan="3"></td><td>Ei>=99.9995</td></tr>
<tr><td></td><td>U16</td><td colspan="3"></td><td>Ei>=99.99995</td></tr>
<tr><td></td><td>U17</td><td colspan="3"></td><td>Ei>=99.999995</td></tr>
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