Compressed Air Coalescing Filters

Models | A3011 to A3303
Flow Rates 6 SCFM (10 Nm³/hr) to 1500 SCFM (2550 Nm³/hr)

Introducing the New Alpha, Walker Filtration’s latest range of market leading compressed air and gas filters. With enhanced housing features and a step change in element performance, the New Alpha delivers a high quality filtration solution you can trust.

Offered in a range of 18 models with connection sizes ranging from 1/8” to 3”, the New Alpha Series has been tested to provide a saturated differential pressure of <125 mbar across X1 and XA grades - proving to be our most advanced filter to date.

With class leading performance and exceptional results in oil aerosol and particle retention, the New Alpha delivers significantly reduced pressure loss and optimum filtration efficiencies - to ensure continually low operational costs.

Flow-Optimised Design
Advanced filter head design for optimised flow performance

Flexible Installation
Modular design and accessible fixings enable simple close coupling assembly

Market Leading Performance
Custom engineered filtration media delivers optimum performance in line with air quality standard ISO 8573-1: 2010

Simplified Serviceability
New externally accessible drain, profiled bowl design and unique push fit elements ensure quick and reliable maintenance

Corrosion Protection
Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating

Colour Coded Element End Caps
Easy and accurate grade identification

Product Safety in Mind
Guaranteed safe housing closure with rotational safety stop
Technical Specification

### Filter model

<table>
<thead>
<tr>
<th>Filter model</th>
<th>Pipe size inches</th>
<th>Inlet flow rate*</th>
<th>Dimensions mm</th>
<th>Weight Kg</th>
<th>Element model</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3011 (grade)</td>
<td>½&quot;</td>
<td>10</td>
<td>6</td>
<td>50</td>
<td>17</td>
</tr>
<tr>
<td>A3021 (grade)</td>
<td>¼&quot;</td>
<td>25</td>
<td>15</td>
<td>50</td>
<td>17</td>
</tr>
<tr>
<td>A3022 (grade)</td>
<td>¾&quot;</td>
<td>42</td>
<td>25</td>
<td>70</td>
<td>24</td>
</tr>
<tr>
<td>A3031 (grade)</td>
<td>⅜&quot;</td>
<td>54</td>
<td>32</td>
<td>70</td>
<td>24</td>
</tr>
<tr>
<td>A3051 (grade)</td>
<td>½&quot;</td>
<td>85</td>
<td>50</td>
<td>70</td>
<td>24</td>
</tr>
<tr>
<td>A3052 (grade)</td>
<td>¾&quot;</td>
<td>119</td>
<td>70</td>
<td>127</td>
<td>32</td>
</tr>
<tr>
<td>A3071 (grade)</td>
<td>⅜&quot;</td>
<td>144</td>
<td>85</td>
<td>127</td>
<td>32</td>
</tr>
<tr>
<td>A3101 (grade)</td>
<td>1&quot;</td>
<td>178</td>
<td>105</td>
<td>127</td>
<td>32</td>
</tr>
<tr>
<td>A3072 (grade)</td>
<td>⅝&quot;</td>
<td>212</td>
<td>125</td>
<td>127</td>
<td>32</td>
</tr>
<tr>
<td>A3102 (grade)</td>
<td>1½&quot;</td>
<td>297</td>
<td>175</td>
<td>127</td>
<td>32</td>
</tr>
<tr>
<td>A3122 (grade)</td>
<td>1¼&quot;</td>
<td>476</td>
<td>280</td>
<td>170</td>
<td>53</td>
</tr>
<tr>
<td>A3151 (grade)</td>
<td>1½&quot;</td>
<td>680</td>
<td>400</td>
<td>170</td>
<td>53</td>
</tr>
<tr>
<td>A3201 (grade)</td>
<td>2&quot;</td>
<td>765</td>
<td>450</td>
<td>170</td>
<td>53</td>
</tr>
<tr>
<td>A3202 (grade)</td>
<td>2½&quot;</td>
<td>1189</td>
<td>700</td>
<td>170</td>
<td>53</td>
</tr>
<tr>
<td>A3251 (grade)</td>
<td>3&quot;</td>
<td>1444</td>
<td>850</td>
<td>220</td>
<td>70</td>
</tr>
<tr>
<td>A3301 (grade)</td>
<td>3&quot;</td>
<td>1529</td>
<td>900</td>
<td>220</td>
<td>70</td>
</tr>
<tr>
<td>A3302 (grade)</td>
<td>3&quot;</td>
<td>2125</td>
<td>1250</td>
<td>220</td>
<td>70</td>
</tr>
<tr>
<td>A3303 (grade)</td>
<td>3&quot;</td>
<td>2550</td>
<td>1500</td>
<td>220</td>
<td>70</td>
</tr>
</tbody>
</table>

### Particle removal

- 25 micron
- 5 micron
- 1 micron
- 0.01 micron
- 0.01 micron

### Maximum particle size class**

- 4
- 3
- 3
- 2

### Maximum oil content**

- 10 mg/m³
- 5 mg/m³
- 0.3 mg/m³
- 0.01 mg/m³
- 0.003 mg/m³

### Maximum temperature - automatic drain

- 80°C (176°F)
- 120°C (248°F)
- 160°C (320°F)
- 200°C (392°F)
- 232°C (450°F)

### Pressure loss - clean & dry

- 30 mbar
- 50 mbar
- 12 mths
- 0.1 psi
- 0.3 psi
- 1 psi

### Pressure loss - saturated

- 0.4 psi
- 0.7 psi
- 0.6 psi
- 0.8 psi
- 1.2 psi
- 1.7 psi

### Maximum working pressure - automatic drain

- 20.7 barg
- 300 psig
- 0.01 psi
- 0.01 psi
- 0.6 psi
- 1.7 psi

### Maximum temperature - manual drain

- 20.7 barg
- 300 psig
- 0.01 psi
- 0.01 psi
- 0.6 psi
- 1.7 psi

### Element end cap colour

- Black
- Green
- Red
- Blue
- Black

### Pressure correction factors

<table>
<thead>
<tr>
<th>Pressure correction factors</th>
<th>For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure (psig)</td>
<td>4 (58)</td>
</tr>
<tr>
<td>7 barg - correction factor</td>
<td>0.76</td>
</tr>
</tbody>
</table>

### Technical notes

1. Direction of air flow is inside to out through the filter element.
2. Pop up indicators (65DPUG3) are fitted to models A3022 to A3051 as standard. Differential pressure indicators (65DPIG) are fitted to models A3052 to A3303 as standard. Activated Carbon (AC) grade filters do not include DP equipment. Volt free contact options are available upon request - see price guide.
3. Coalescing Filters are fitted as standard with normally open float operated automatic drain valves, ADVS16 on models A3011 to A3051. ADVS16C are available for low flow applications. 20.7 bar range (300 psi) at 120°C (248°F) available when supplied with a manual drain valve (MDV25 / MDVE25).
4. Activated Carbon Filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO2).
5. New Alpha Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 2 gases.
6. Threaded connections are Rp (BSP Parallel) to ISO 7-1 or NPT to ANSI/ASME B1.20.1 if supplied within North America. Rc (BSP Taper) to ISO 7-1 also available.
7. For NPT threads, add the suffix N, e.g., A3052
8. Filters are suitable for use with mineral and synthetic oils plus, oil-free compressed air applications.

---

** Rated flow at 7 barg, reference conditions at 1 bar (a) 20°C

*** Maximum recommended operating temperature 25°C (77°F)