Accordian Style Air Intake Filters

Series A10, A30, A40, A50 - Enameled Carbon Steel
Series A12, A32, A42, A52 - 304 Stainless Steel

For more information contact:
SparksFilters 585-624-4500
585-624-5300 fax
E-Mail: Sales@sparksfilters.com

See http://www.sparksfilters.com for more options.

- Intake Air Flows to 6,700 CFM
- Low ∆P ≤ 3" W.C.
- 304SS Throat Safety Cages Std.
- Enameled Steel Construction

Series A10, A30, A40, & A50 air intake filters offer time honored protection for compressors, blowers, turbines, engines, and other air handling equipment. They are fabricated from heavy gauge enameled steel. Weather hoods on models A10 & A30 reject rain and snow. Any standard models can be modified at your request to more exactly fit your needs.

- Connection Sizes 4" to 30"
Male NPT (MT) or flat face flanges (FF) are std. Flanges match diameter & drilling for 150# ANSI standard. Specify optional right angle base (AF) for side mounts, (FT) for female NPT, (BE) for bevel or (PE) for square cut that match nominal pipe ODs, or (TE) for square cut that match actual tube ODs. Increased or decreased connection sizes are also optional on any model.

- Accordian Elements w/Prefilter
These washable pleated textile media elements are rugged performers. They have very high dirt holding capacity and high efficiency. In each unit, a single accordion filter element is placed over the housing’s fixed perforated center tube. The “accordion” element is cinched in place with a supplied retaining strap (not shown), and is then wrapped with a 90µ prefilter blanket (not shown), Permanent housing gaskets (not shown) seal each end of the filter element.

- Enameled Steel Construction

See Chart above to fill in the A___ Series Designation, or to change the connection type or size.

- Connection Sizes 4" to 30"
Male NPT (MT) or flat face flanges (FF) are std. Flanges match diameter & drilling for 150# ANSI standard. Specify optional right angle base (AF) for side mounts, (FT) for female NPT, (BE) for bevel or (PE) for square cut that match nominal pipe ODs, or (TE) for square cut that match actual tube ODs. Increased or decreased connection sizes are also optional on any model.

- Accordian Elements w/Prefilter
These washable pleated textile media elements are rugged performers. They have very high dirt holding capacity and high efficiency. In each unit, a single accordion filter element is placed over the housing’s fixed perforated center tube. The “accordion” element is cinched in place with a supplied retaining strap (not shown), and is then wrapped with a 90µ prefilter blanket (not shown), Permanent housing gaskets (not shown) seal each end of the filter element.

- Enameled Steel Construction
Sparksfilters are available in a wide selection of inlet and outlet sizes and configurations in both enamel finished carbon steel, 304SS, and 316SS. Atmospheric air intake series B10, B12, and B70 with weather hoods can be mounted directly, or piped from a roof top installation to equipment below. In sheltered installations, hoodless air intake series B50 and B52 with exposed filter elements make inspection or pre-filter cleaning a breeze. To silence excess noise at the equipment’s inlet, chamber silenced series C10 & C12, or tube silenced series D10 & D12 can cut noise in half. In-line filters E20, E22, & Side Arm Housings F20, & F22 permit installation anywhere between the inlet source and equipment being served. They’re perfect for indoor placement with exterior draws, eliminating the need to climb onto the roof. Models with bolt seal closures store internal pressures to 5 psid (opt. greater) in air or gas services. The H20, H22 exhaust series can stop most mist and smoke in its tracks, without the ∆P penalty loss of older models. For situations where you absolutely positively must go on edge, we can provide units for horizontal mount with special interior element. This cage has been sized with excess open area to avoid pressure loss. If you’ve ever searched for the wing nut when changing the air filter on your car, you know first hand just how important a throat guard can be. Standard models have male NPT (MT) or female NPT (FT) or flat face flanges (FF) connections. Flanges match the diameter & drilling for 150# ANSI standard. Select optional right angle base (AF) for side mounts, female NPT (FT), bevel (BV) or square cut stub necks (PE) where you wish to weld in place. The right angle connections permit exterior wall mounts with gravity still working on your side to ensure an enduring element seal. For situations where you absolutely positively must go truly on edge, we can provide units for horizontal mount with special interior element side mount support assemblies. Increased or decreased connection sizes are also available on any model. Consult us for other material options.

SparksFilters 585-624-4500

Your Choice of Connection Types:

<table>
<thead>
<tr>
<th>Flange Bore OD</th>
<th>BC Hole Bore</th>
<th># Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3.5</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>4.5</td>
<td>7.5</td>
</tr>
<tr>
<td>5</td>
<td>5.6</td>
<td>8.6</td>
</tr>
<tr>
<td>6</td>
<td>6.7</td>
<td>9.5</td>
</tr>
<tr>
<td>8</td>
<td>8.7</td>
<td>11.75</td>
</tr>
<tr>
<td>10</td>
<td>10.88</td>
<td>14.25</td>
</tr>
<tr>
<td>12</td>
<td>12.88</td>
<td>17</td>
</tr>
<tr>
<td>14</td>
<td>14.1</td>
<td>18.75</td>
</tr>
<tr>
<td>16</td>
<td>16.1</td>
<td>21.25</td>
</tr>
<tr>
<td>18</td>
<td>18.1</td>
<td>22.75</td>
</tr>
<tr>
<td>20</td>
<td>20.2</td>
<td>25</td>
</tr>
<tr>
<td>24</td>
<td>24.2</td>
<td>29.5</td>
</tr>
</tbody>
</table>

Thickness = 3/8” to 1/2” all

Data above will assist in matching the flange connection of any existing filter housing(s) in need of replacement. Sparks™ flanges match the diameter & drilling for 150# ANSI standard. Since it is not practical to measure the bore of any installed unit, wrestle with your not very flexible metal tape to measure a 90° arc (1/4 of the circle, we red line) over the bolts of your existing flange. Multiply by 4. Count the bolts. Compare with the chart above. Do Not rely upon the more easily measured flange OD for flange sizing as it can vary between suppliers.

Air Intake Filter Choices
Model Considerations, Air Flow Sizing, Connection Style Choices, Plate Flange Sizing

See http://www.sparksfilters.com for more options.

A 304SS throat safety cage sits beyond the filter element on all but economy housings. This exceptional feature ensures that the handle or pen you drop during change out doesn’t fall into the process equipment downstream! And because it’s 304SS, it’s maintenance free.

Use the chart above to access the init. ∆P vs. flow for series A, B, C, and D air intakes. Be aware that the maximum practical flow through a filter housing, like other piping, is limited primarily by the cross sectional area of the connection. Compare the connection size shown below with the desired flow. It is prudent to select a connection having a value that is central to the shaded area. While engines and reciprocating compressors can tolerate inlet air resistances to 20" W.C., lesser blowers or fans may require element service at 5" W.C. While the init.∆P does not increase, the specific filtration resistance of the airborne contaminates in your location ultimately dictates element life. High performance textile elements routinely serve for periods from 3 mos. to 2 yrs., with 1 yr. being common.