Overview of Food Grade/Stainless/ISO

Unit Overview
Safeguard your operations from rust, dirt, water, and oil. The pre-filters will remove contaminants at a very high efficiency - up to 99.99% for 0.01 microns. Liquid releases from the filter cartridge to an automatic drain as rapidly as it enters the filter. This allows the filter to continue removing liquids for an unlimited time without loss of efficiency or flow capacity. The final stage of filtration removes all viable organisms with an efficiency rating of 99.99% at 0.01 microns.

The special Food Grade certified powder-coated filters are excellent for wash down environments, which is typical in the food processing and dairy industries. The powder coating itself is non-toxic. The filters meet the requirements of 21 CFR 110, while the coating ingredients meet at least one section of FDA Title 21, with the exception of food items containing 8+% alcohol. In 3-stage point-of-use filtration systems, the first two stages are designed to remove contaminants at a very high efficiency. Liquid releases from the filter cartridges to automatic drains as rapidly as it enters the filter. This allows the filters to continue removing liquids for an unlimited time without loss of efficiency or flow capacity. The third and final stage of filtration removes all viable organisms, creating clean and sterile air.

Our stainless steel units are great in food plants with critical air supply and wash down locations. Easily remove water, dirt, and oil contamination from applications without worry of corrosion. They are also good with removing water and dirt in gas systems. First stage elements utilize ‘washable’ stainless steel, where as second stage elements utilize high efficiency borosilicate fiber. They come with either an automatic float drain or nickel-plated brass manual drain. These units remove the contaminants from compressed air applications with direct or indirect food contact in processing equipment such as air knives, bagging machines, food and ingredient conveying, purging of process lines, etc. As mentioned above, the first two stages are designed to remove contaminants at a very high efficiency, which will ultimately create clean and sterile air.

*RTi complies with ISO 8573 for Grade 1 solid particles and Grade 1 oil removal. We also offer a test kit for checking compressed air humidity and particulate with test kit part number RTi-QAT and replacement membranes part number RTi-QAT-MD. For independent testing please consult your local laboratory for analysis.*

**Eliminator**: Water & Dirt Removal (+Oil in Combo)
**Eliminex**: Water & Dirt Removal (+Oil in Combo)
**Coalescer**: Light Water, Light Dirt, & Oil Removal
**Oil-Extractor**: Water, Dirt, & Oil Removal

ISO Chart

**What is ISO8573-1:2010?** ISO8573-1:2010 is the international standard for compressed air quality.

**Class 1 Particulate**: In each cubic meter of compressed air, the particulate count should not exceed 20,000 particles in the 0.1-0.5 micron size range, 400 particulates in the 0.5-1 micron size range and 10 particulates in the 1-5 micron size range.

**Class 2 Water**: A pressure dewpoint (PDP) of -40°C or better is required and no liquid water is allowed.

**Class 3 Oil**: In each cubic meter of compressed air, not more than 0.01 mg of oil is allowed. This is a total level for liquid oil, oil aerosol, and oil vapor.
These special Food Grade certified powder-coated filters are excellent for wash down environments, which is typical in the food processing and dairy industries. The powder coating itself is non-toxic. The filters meet the requirements of 21 CFR 110, while the coating ingredients meet at least one section of FDA Title 21, with the exception of food items containing 8+% alcohol. Both units include aluminum housings with food grade powder-coating, as well as auto drains in the first and second stages.

### Food Grade 1 & 2 Stage Order Guide

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Part Number</th>
<th>Height (in.)</th>
<th>Width (in.)</th>
<th>Depth (in.)</th>
<th>Bowl O-Rings</th>
<th>1st Stage Element</th>
<th>2nd Stage Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>⅜&quot;</td>
<td>3P-060-F03-F</td>
<td>11.5</td>
<td>8.0</td>
<td>3.8</td>
<td>N32-95-257</td>
<td>3P-060</td>
<td>N/A</td>
</tr>
<tr>
<td>½&quot;</td>
<td>3P-060-F04-F</td>
<td>11.5</td>
<td>8.0</td>
<td>3.8</td>
<td>N32-95-257</td>
<td>3P-060</td>
<td>N/A</td>
</tr>
<tr>
<td>¾&quot;</td>
<td>3P-090-F06-F</td>
<td>15.0</td>
<td>10.0</td>
<td>4.6</td>
<td>N32-95-256</td>
<td>3P-090</td>
<td>N/A</td>
</tr>
<tr>
<td>1&quot;</td>
<td>3P-150-F08-F</td>
<td>15.0</td>
<td>10.0</td>
<td>4.6</td>
<td>N32-95-256</td>
<td>3P-150</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Food Grade 3 Stage Order Guide

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Part #</th>
<th>Height (in.)</th>
<th>Width (in.)</th>
<th>Depth (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>½&quot;</td>
<td>4P-061-F04-T3Ci</td>
<td>11.5</td>
<td>12.0</td>
<td>3.8</td>
</tr>
<tr>
<td>1&quot;</td>
<td>4P-151-F08-T3Ci</td>
<td>15.0</td>
<td>15.8</td>
<td>4.6</td>
</tr>
</tbody>
</table>

### Specifications

- **Port Sizes**: ⅜", ½", ¾", 1"
- **Thread Styles**: NPT
- **Flow Capacity**: 60/90/150 SCFM @ 100 PSI
- **Housing Type**: FDA Powder Coated Aluminum
- **Filter Capacity**: 3P: 1 micron, 4P: 1 micron, 3C: 0.01 micron

### Eliminator®

#### ⅜"
- Part Number: 3P-060-F03-F
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 3P-060
- 2nd Stage Element: N/A

#### ½"
- Part Number: 3P-060-F04-F
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 3P-060
- 2nd Stage Element: N/A

#### ¾"
- Part Number: 3P-090-F06-F
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 3P-090
- 2nd Stage Element: N/A

#### 1"
- Part Number: 3P-150-F08-F
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 3P-150
- 2nd Stage Element: N/A

### Eliminator® Combo (Class 1)

#### ⅜"
- Part Number: 3P-060-F03-DC
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 3P-060
- 2nd Stage Element: 3C-060

#### ½"
- Part Number: 3P-060-F04-DC
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 3P-060
- 2nd Stage Element: 3C-060

#### ¾"
- Part Number: 3P-090-F06-DC
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 3P-090
- 2nd Stage Element: 3C-090

#### 1"
- Part Number: 3P-150-F08-DC
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 3P-150
- 2nd Stage Element: 3C-150

### Coalescers (Class 1)

#### ⅜"
- Part Number: 3C-061-F03-F
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 3C-061
- 2nd Stage Element: N/A

#### ½"
- Part Number: 3C-061-F04-F
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 3C-061
- 2nd Stage Element: N/A

#### ¾"
- Part Number: 3C-091-F06-F
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 3C-091
- 2nd Stage Element: N/A

#### 1"
- Part Number: 3C-151-F08-F
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 3C-151
- 2nd Stage Element: N/A

### Oil Extractor Combo (Class 1)

#### ⅜"
- Part Number: 4P-061-F03-DC
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 4P-060
- 2nd Stage Element: 3C-061

#### ½"
- Part Number: 4P-061-F04-DC
- Height: 11.5 in.
- Width: 8.0 in.
- Depth: 3.8 in.
- Bowl O-Rings: N32-95-257
- 1st Stage Element: 4P-060
- 2nd Stage Element: 3C-061

#### ¾"
- Part Number: 4P-090-F06-DC
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 4P-090
- 2nd Stage Element: 3C-090

#### 1"
- Part Number: 4P-150-F08-DC
- Height: 15.0 in.
- Width: 10.0 in.
- Depth: 4.6 in.
- Bowl O-Rings: N32-95-256
- 1st Stage Element: 4P-150
- 2nd Stage Element: 3C-150

*To add an indicator, add “i” to the end of part number (pictures shown have indicators)

** Indicator part number for Food Grade: N32-W1-DPi-FG


**** Optional Mounting Bracket: BK-1 (35 and 60 SCFM only)
1, 2, 3 Stage Stainless Steel Units

**Stainless 3 Stage Order Guide**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Part #</th>
<th>Height (in.)</th>
<th>Width (in.)</th>
<th>Depth (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>½&quot;</td>
<td>4P-061-S04-T3C</td>
<td>12.0</td>
<td>10.0</td>
<td>3.8</td>
</tr>
<tr>
<td>1&quot;</td>
<td>4P-151-S08-T3C</td>
<td>19.0</td>
<td>15.5</td>
<td>4.6</td>
</tr>
</tbody>
</table>

Easily remove water, dirt, and oil contamination from applications without worry of corrosion. All units manufactured from 316 stainless steel. Units include stainless steel housings, as well as auto drains in the first and second stages.

4P-061-S04-T3C Elements:
- 1st Stage: 4P-060
- 2nd Stage: 3C-060
- 3rd Stage: 3C-061

4P-151-S08-T3C Elements:
- 1st Stage: 4P-150
- 2nd Stage: 3C-150
- 3rd Stage: 3C-151

**Stainless 1 & 2 Stage Order Guide**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Part Number</th>
<th>Height (in.)</th>
<th>Width (in.)</th>
<th>Depth (in.)</th>
<th>Bowl O-Rings</th>
<th>1st Stage Element</th>
<th>2nd Stage Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eliminex® (Class 5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>½&quot;</td>
<td>1P-060-S04-F</td>
<td>12.0</td>
<td>3.8</td>
<td>3.8</td>
<td>KSG-171</td>
<td>1P-060</td>
<td>N/A</td>
</tr>
<tr>
<td>½&quot;</td>
<td>1P-175-S04-F</td>
<td>19.0</td>
<td>4.6</td>
<td>4.6</td>
<td>KSG-176</td>
<td>1P-175</td>
<td>N/A</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1P-175-S08-F</td>
<td>19.0</td>
<td>4.6</td>
<td>4.6</td>
<td>KSG-176</td>
<td>1P-175</td>
<td>N/A</td>
</tr>
</tbody>
</table>

| Eliminex® Combo (Class 1) |              |              |             |             |              |                   |                   |
| ½"        | 1P-060-S04-DC | 12.0         | 8.0         | 3.8         | KSG-171      | 1P-060            | 3C-060            |
| 1"        | 1P-090-S08-DC | 19.0         | 10.0        | 4.6         | KSG-176      | 1P-090            | 3C-090            |
| 1"        | 1P-150-S08-DC | 19.0         | 10.0        | 4.6         | KSG-176      | 1P-150            | 3C-150            |
| 1"        | 1P-250-S08-DC | 19.0         | 10.0        | 4.6         | KSG-176      | 1P-250            | 3C-250            |

| Coalescers (Class 1) |              |              |             |             |              |                   |                   |
| ½"        | 3C-060-S04-F  | 11.0         | 3.0         | 3.3         | KSG-171      | 3C-060            | N/A               |
| 1"        | 3C-090-S08-F  | 15.6         | 3.8         | 4.0         | KSG-176      | 3C-090            | N/A               |
| 1"        | 3C-150-S08-F  | 15.6         | 3.8         | 4.0         | KSG-176      | 3C-150            | N/A               |
| 1"        | 3C-250-S08-F  | 15.6         | 3.8         | 4.0         | KSG-176      | 3C-250            | N/A               |

| Oil Extractor Combo (Class 1) |              |              |             |             |              |                   |                   |
| ½"        | 4P-060-S04-DC | 11.0         | 6.4         | 3.3         | KSG-171      | 4P-060            | 3C-060            |
| 1"        | 4P-090-S08-DC | 15.6         | 7.8         | 4.0         | KSG-176      | 4P-090            | 3C-090            |
| 1"        | 4P-150-S08-DC | 15.6         | 7.8         | 4.0         | KSG-176      | 4P-150            | 3C-150            |

** Optional Mounting Bracket: BK-1 (35 and 60 SCFM only)

**Specifications**

<table>
<thead>
<tr>
<th>Port Sizes</th>
<th>½&quot;, 1&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thread Styles</td>
<td>NPT</td>
</tr>
<tr>
<td>Flow Capacity</td>
<td>60/90/150/250 SCFM at 100 PSI</td>
</tr>
<tr>
<td>Housing Type</td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td>Filter Capacity</td>
<td>Combo Units: 0.01 micron</td>
</tr>
</tbody>
</table>

RTi Food Grade Filter Applications  | 800-521-9200  | www.dri-air.com