Model 6187 Series
High Pressure Gas Filter

Description
The 6187 Series is a high pressure gas filter that employs a fine cloth filter media of microporous fiberglass supported between a wire mesh disc and high pressure rated screen. The unit is constructed of all welded 316 stainless steel housing to provide maximum purity. The support screen prevents the filter element from collapsing in the event of a sudden impact of gas at 2500 psig (maximum).

Applications
Typically, these filters function as “prefilters” for a high purity gas delivery line. Installation is usually between the source cylinder and a regulator, affording an extra measure of filtration protection. While most Matheson Tri-Gas regulators are supplied with a built-in internal filter at the inlet side, the 6187 Series with 0.2 micron efficiency provides longer service life to the regulator and reduced particulate in the gas stream delivered to the point-of-use. The filter needs to be replaced when saturated.

Ordering Information

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Inlet/Outlet Connections</th>
<th>Dimensions (L x D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6187-P4FF</td>
<td>1/4” FPT</td>
<td>1.25” Hex x 1.87”</td>
</tr>
<tr>
<td>6187-T4FF</td>
<td>1/4” Swagelok</td>
<td>1.25” Hex x 4.13”</td>
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Model 6190 Series
0.01 Micron Membrane Gas Filter

Description
Matheson Tri-Gas has provided an efficient solution to control particulates by introducing this Teflon media filter to achieve gas stream filtration efficiency to the 0.01 micron level with a high performance membrane gas filter. This filter may be installed in non-corrosive gas streams that are supplied by either cylinder sources, bulk sources or an on-site generating plant. Installing the membrane filter near the reaction chamber itself affords the best protection in eliminating particulates that can be released into the gas stream.

Design Features/Components
• Porous Teflon filter medium.
• Excellent compatibility with non-corrosive semiconductor gases
• All welded 316L stainless steel construction...for purity
• Standard units available with VCR and Swagelok connections
• PTFE Teflon membrane; 0.2 micrometer pore size
• Rated at 100% efficiency to 0.01 micron
• Large surface area for longer life and uniform flow characteristics
• Special end fittings available (minimum quantities may apply)

Specifications
Filtration Rating: 100% efficiency at 0.01 micron level
Medium: PTFE Teflon medium supported by and sealed into polypropylene end caps
Effective Filter Area: 0.5 ft²
Pressure Rating: 1000 psig max.
Temperature Rating: 100°F max.
Internal Seal: Teflon encapsulated silicone O-ring
Quality Control: 100% test of Teflon filter element prior to assembly in housing
Packaging: All units are leak tested at 500 psig, capped and packaged in poly bag
Maximum Flow: 250 SLPM at 15 psig inlet, atmosphere outlet
Shipping Weight: 2 lbs

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<tbody>
<tr>
<td>6190-T4FF</td>
<td>1/4” Swagelok</td>
<td>5.56” x 2.20”</td>
</tr>
<tr>
<td>6190-V4MM</td>
<td>1/4” VCR M x M</td>
<td>5.62” x 2.20”</td>
</tr>
</tbody>
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www.mathesontrigas.com