**DESCRiPTION**

The model 8010 replaceable cartridge gas purifier is useful in many laboratory and industrial applications where the introduction of oil and/or water can result in poor performance or equipment shut-down. It is not uncommon to find varying levels of these impurities in some industrial gases and occasionally even in specialty carrier gases. The small daily operating costs are easily justified by the prevention of a system shut-down and the subsequent cleaning and/or repair costs.

The units are especially useful in GC carrier gas lines to ensure that undesirable moisture does not enter the instrument. Water can contribute to inaccurate results and the rapid deterioration of expensive chromatography column separation phases.

The model 8010 purifier shell must be used in conjunction with specially designed replaceable cartridges.

Models 8010-1, 8010-2, or 8010-3 are filled with various adsorbents. Model 8010-4 contains a 5 micron sintered bronze filter element. These are described below. These cartridges are shipped in hermetically sealed cans in a dry nitrogen atmosphere with convenient screw caps for easy opening. This improved packaging ensures full retention of capacity in storage until the time of use.

**MATERIALS OF CONSTRUCTION**

Shell body: anodized aluminum
Shell head: nickel plated brass
O-ring seal: buna-N

Cartridges:
- 8010-1 Molecular Sieve 13x
- 8010-2 Molecular Sieve 4A
- 8010-3 Activated Charcoal
- 8010-4 Sintered Bronze
- 8010-5 Molecular Sieve 3A
- 8010-6 Molecular Sieve 5A

Other materials available on request.

*O-ring seal is buna-N

**SPECIFICATIONS**

Max. Operating Pressure: 3000 psig (500 psig for oxygen)
Operating Temperature: -40° to +165°F.
Inlet and Outlet Ports: 1/4" NPT female
Dimensions: 2" dia. x 5 3/4" long
Weight with Cartridge: 1.5 lbs.
Dew Point Achievable: -100°F.

**HOW TO ORDER**

<table>
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<tr>
<th>Model</th>
<th>Description</th>
<th>Absorption Capacity</th>
<th>General Application</th>
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<tbody>
<tr>
<td>8010</td>
<td>Purifier Shell Only</td>
<td></td>
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</tr>
<tr>
<td>8010-1</td>
<td>Molecular Sieve 13x</td>
<td>6.5 grams water</td>
<td>Removal of oil &amp; water</td>
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<tr>
<td>8010-2</td>
<td>Molecular Sieve 4A</td>
<td>7.2 grams water</td>
<td>Removal of water from inert gases and saturated hydrocarbons</td>
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<tr>
<td>8010-3</td>
<td>Activated Charcoal (Warning: Do not use with oxygen concentrations in excess of 21%)</td>
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<td>Removal of heavy hydrocarbons acetone level control in acetylene used for atomic absorption</td>
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<tr>
<td>8010-4</td>
<td>5 micron sintered bronze element (other micron sizes available)</td>
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<td>Particulate removal</td>
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<tr>
<td>8010-5</td>
<td>Molecular Sieve 3A</td>
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<td>Removal of water from unsaturated hydrocarbons such as acetylene</td>
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<td>8010-6</td>
<td>Molecular Sieve 5A</td>
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