

## **GAS PURIFIERS-Model 8010 (for pressure applications up to 3000 psig)**

### **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.

### **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**

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

