

# Model AG6170

## Low Pressure, High Flow Purifier

Model AG6170 purifier protects sensitive instruments from water and/or oil contamination which ensures more accurate, reproducible test results and prolongs the instrument's service life. This purifier (capable of removing up to 20 times more water than our Model SG6140), may be used with noncorrosive gases compatible with aluminum and neoprene at inlet pressures up to 350 psig.

Three different purifying elements are available (see Tables I and II). These elements can be replaced without removing the purifier from the process line.

**Note:** Model AG6170 cannot be used as a particulate filter. For particulate filters see pages 143–146, The Model AG6170 is not suitable for use with Acetylene.

### Specifications

- Maximum Operating Pressure: 350 psig
- Operating Temperature Range:  
-40°F to 200°F
- Maximum Flow Capacity:  
280 slpm for short periods (<15 mins)  
85 slpm for continuous service
- Pressure Drop:  
0.12 psi at 85 slpm Air  
1 psi at 226 slpm Air
- Dew Point Obtainable  
(4A and 13X M.S.): -100°F (1.5 ppm)
- Inlet & Outlet Connections: 1/4" NPT male
- Dimensions:  
Height: 15 5/8"  
Diameter: 4 3/4"
- Approximate Weight: 7 lbs

### Materials of Construction

- Purifier:  
Shell and Flange Plate: Aluminum  
Seals: Neoprene  
Strainer Assembly: Monel & Brass
- Purifier Element:  
Housing: Electrolytic Tin-Plated  
Cold-Rolled Steel  
Retainer: Polyester Felt Backed  
by Type 316 SS Screen  
Desiccant: 4A, 13X or  
Activated Charcoal as Ordered



AG6170 Purifier, Element and Gaskets

Table I, AG6170 Purifier

Part No.	Element Type
AG6170	None
AG6170-1	Type 4A Molecular Sieve
AG6170-2	Type 13X Molecular Sieve
AG6170-3	Activated Charcoal

Elements are shipped in individually packed, hermetically sealed cans to prevent deterioration. They must be installed before using the purifier.

Table II, Application

Element Type	Used for Removing	Water Capacity
Type 4A Molecular Sieve	Water	134 grams
Type 13X Molecular Sieve	Oil and Water	126 grams
Activated Charcoal	Oil and Heavy Hydrocarbons*	NA

\* Not suitable for Acetylene service or with oxygen concentrations above 21%.

### Optional Equipment

Equipment	Part No.
Replacement Element (includes replacement gaskets):	
Type 4A Molecular Sieve	SG6171
Type 13X Molecular Sieve	SG6172
Activated Charcoal	SG6173