

# Models SG6190, SG6191

## Glass Encased, Low Pressure, High Purity Moisture Traps

These traps consist of a silanized, borosilicate glass tube which is filled with Type 13X Molecular Sieve and Type 4A Indicating Molecular Sieve. The adsorbent material removes moisture from the gas stream while the chemically-inert glass tube eliminates potential contamination from outgassing or diffusion (a phenomenon commonly associated with plastic purifiers). The Type 4A indicating sieve will undergo a color change (from blue to buff) to alert when the adsorbent requires replacement.

For operator safety, the glass housing has been encapsulated in a secondary clear plastic outer tube to provide protection from potential glass breakage while still providing a visual indication of the adsorbent's condition.

These traps are available in two different sizes, as is indicated in Table I.



SG6191 Trap

### Standard Features

- Borosilicate Glass Inner Housing eliminates contamination from diffusion or outgassing commonly associated with purifiers made of plastic.
- Transparent Housing permits quick observation of the adsorbent's condition.
- Sintered Type 316 Stainless Steel Inlet and Outlet Filters retain the adsorbent within the column.
- Pre-purged and Pressure Tested with Ultra-High Purity Helium to insure integrity.

### Specifications

Maximum Operating Pressure: 125 psig

Maximum Operating Temperature: 212°F

Efficiency: To <10 ppb water with inlet levels of 30 ppm or less

Water Capacity:

SG6190: 11 grams

SG6191: 16 grams

Trap Volume:

SG6190: 70 cc

SG6191: 100 cc

Maximum Flow Capacity:

32 slpm at 125 psi inlet

Inlet and Outlet Connections:

1/4" compression (standard)

Optional 1/4" x 1/8" tube reducers available

Approximate Weight: 2 lbs

### Materials of Construction

Housing:

Inner Tube: Silanized Borosilicate Glass

Outer Tube: Polycarbonate Plastic

Seals: Zytel-A Nylon Resin

Fittings: Nickel-Plated Brass

Filters, 40 micron:

Type 316 Stainless Steel

Adsorbent Material:

Type 13X Molecular Sieve

and 4A Indicating Molecular Sieve

Table I

Part No.	Size
SG6190	1 3/4" dia. x 10" long
SG6191	1 3/4" dia. x 12 1/2" long

### Optional Equipment

Equipment	Part No.
Adsorbent Refill Kit*	SG6195
Tube Reducer (2 required) brass** 1/8" compression x 1/4" OD tube for inlet/outlet	0202-5100
Mounting Clip with Screws (2 required)	MC-3

\* Kit contains enough adsorbent to refill three (3) SG6190 traps or two (2) SG6191 traps.

\*\* If selected, these items are not installed on the trap. They are shipped as separate items.