

SG6160 Series

Disposable Oxygen Traps

The SG6160 Series Oxygen Traps are designed to remove trace levels of Oxygen from carrier gases such as Argon, Carbon Dioxide, Carbon Monoxide, Helium, Hydrogen, Methane or Nitrogen. These traps are also ideal for use with argon-methane mixtures (i.e. P-5 or P-10 mixtures), commonly used with gas chromatographs utilizing electron capture detectors.

These traps incorporate a highly reactive, metal reagent, which is supported on an inert substrate, coupled with molecular sieves. Oxygen is removed by chemical reaction with the reagent to form a metal oxide. Oxygen levels can be effectively reduced to less than 2 ppb when starting levels are 10 ppm or less.

Service life of these traps will vary depending on the incoming Oxygen level in the carrier gas. However, it is estimated that when the starting Oxygen level is <10 ppm, the Model SG6160 can purify four cylinders (1200 ft³) of carrier gas, while the Model SG6162 can typically purify thirty-five cylinders (10,500 ft³) or more. Actual Oxygen capacity can be found in the Specifications below. We also recommend, where the application's flow rates permit, using these traps upstream of our SG6150 Series Indicating Oxygen Traps (page 153) to provide a visual indication of Oxygen breakthrough, thus alerting of the need to replace the trap.

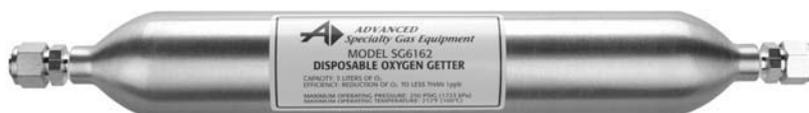
Note: Oxygen Traps are not recommended as a replacement for the use of proper high purity gases. Rather, they are designed to provide additional protection from Oxygen contamination which might result from system leaks or diffusion, or to achieve further reduction in Oxygen impurity levels for extremely sensitive instrumentation or processes.



MC-1 Optional Mounting Clip



SG6160 Oxygen Trap



SG6162 Oxygen Trap

Specifications

Maximum Operating Pressure: 250 psig

Efficiency: To <2 ppb Oxygen when inlet levels are 10 ppm or less

Oxygen Capacity:
 SG6160: 450 mg
 SG6162: 3200 mg

Maximum Flow Capacity:
 SG6160: 5 slpm nitrogen at 125 psig
 SG6162-4: 20 slpm nitrogen at 80 psig
 SG6162-2: 60 slpm nitrogen at 80 psig

Inlet and Outlet Connections: See Table I

Dimensions (diameter by length):
 SG6160: 1 1/4" x 10"
 SG6162: 2 3/8" x 18"

Approximate Weight:
 SG6160: 12 oz.
 SG6162: 3 lbs.

Materials of construction

Body: Aluminum
 Inlet and Outlet Fittings: Brass
 Filters (40 micron):
 Type 316 Stainless Steel

Table I

Part No.	Inlet and Outlet Connections
SG6160-4	1/4" compression
SG6160-8	1/8" compression
SG6162-2	1/2" compression
SG6162-4	1/4" compression

Optional Equipment

Equipment	Part No.
Mounting Clip For Model SG6160	MC-1
Mounting Clip For Model SG6162 (Set of 2)	MC-5-2