

Model 1000 O₂ filters

Compression fittings

Introduction

The Model 1000 is a high capacity O₂ filter, for long term protection of capillary column stationary phases against oxidation at GC operating temperatures. The Model 1000 O₂ filter is intended for use with non-oxidizing gases such as He, Ar, N₂, H₂ or CH₄ containing less than 0.1% oxygen. The adsorbent binds covalently with oxygen; no gas is generated from this reaction.



Important



Warnings must be read carefully and understood. Improper use of this product can cause harm or death to personnel and damage to property!

- Wear eye protection and use caution when working with pressurized systems.
- Maximum pressure is 68.9 bar / 1000 psi.
- When using a high-pressure gas source over-pressure protection must be provided.
- Do not open filter, even after use.
- The rapid oxidation of the active adsorbent in this filter can cause the filter bed to become extremely hot, resulting in danger of fire or burn injuries. Limited exposure of the filter to air during installation does not result in rapid reaction or dangerous heat generation.
- Do not pass air or oxidizing gases in concentrations above 0.1% through this filter!

- Special precautions might be required when using hydrogen or hazardous gases. Consult local regulations and your company's safety procedures.

Instructions

Installation for compression fittings

1. Check the package contents for damage. Contact your supplier if any items are damaged or missing.
2. The filters are delivered in the active state, filled with helium. It is ready for use, but it is recommended that the trap be purged with the gas to be purified.
3. For the best connections, start with freshly-cut tubing in the gas line. 1/8" nuts should be turned 3/4 turn past finger tight. 1/4" nuts should be turned 1-1/4 turns past finger tight.
4. Remove the end plugs from both ends of the trap, then attach the inlet end of the trap to the gas line.
5. While the end plugs are removed from the trap during installation, a small amount of air will diffuse into the adsorbent. As long as the trap is attached to the gas line within a few minutes, the loss of adsorbing capacity will be negligible.
6. Attach the outlet end of the trap.
7. Purge the entire system until a total of 1 to 2 liters of gas has been flushed through.
8. Leak check all connections.

Specifications

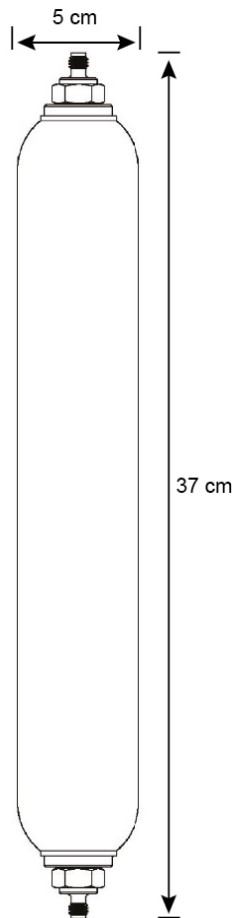


Figure 1. 500 cc

Product Numbers

500 cc	
1/8" Brass	1/4" Brass
202200-B	202202-B
1/8" Stainless steel	1/4" Stainless steel
202200-SS	202202-SS

References



Recycling

Please contact Trajan for information regarding recycling purifier products.

Information and support

Visit www.trajanscimed.com or contact techsupport@trajanscimed.com

Specifications are subject to change without notice.

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