

High Capacity Oxygen Trap

(1/8-inch tube compression fittings–cat.# 20601; 1/4-inch tube compression fittings–cat.# 20600)

Maximum Operating Pressure: 250 psi

Maximum Operating Temperature: 100 °C

Installation Location

Ideally, the trap should be installed immediately before the GC bulkhead carrier gas inlet fitting. When installed at this position, the trap neutralizes incoming O₂ leaks from prior fittings or from cylinder contaminants. In addition, optimal performance is obtained when the purifier is mounted in a vertical position. Vertical installation guards against channeling (particle settling due to equipment vibrations) that occurs when the trap is mounted horizontally allowing unpurified gas to reach the capillary column.

Installation Instructions

1. Pre-plumb the system and align all fittings so that minimal strain is placed on the end fittings of the purifier during installation.
2. Purge gas lines at 100 cc/min flow rates for 5 minutes. This flushes oxygen from the carrier gas lines.
3. While the carrier gas is still flowing, quickly remove one end fitting from the purifier and connect it to the carrier gas line. Tighten the purifier fittings approximately 3/4-turn for 1/8-inch fittings and one full turn for 1/4-inch fittings.
4. Remove the other end fitting from the purifier (with the carrier gas still flowing) and carefully connect it to the carrier gas inlet connection of the GC as described in step 3.
5. Leak check with Restek's Electronic Leak Detector (cat.# 22655). DO NOT use liquid leak detectors.
6. Replace the trap after five 200 cu. ft. cylinders have been consumed (approx. 1.5 300 cu ft cylinders).

Health Hazards

Inhalation: Causes respiratory tract irritation. May cause allergic respiratory reaction. Prolonged or repeated exposure may result in copper poisoning.

Skin Contact: Causes skin irritation. May cause an allergic reaction.

Eye Contact: Can cause eye irritation.

Ingestion: Harmful if swallowed. May cause pain, nausea, vomiting and/or diarrhea. May cause systemic toxicity. Coma, shock, and death may occur.

First-Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.

Skin: Flush skin with large amounts of water. If irritation persists, get medical attention.

Eye: Flush eyes for 20 minutes. Get immediate medical attention.

Ingestion: Give large amounts of water if the person is conscious. Get immediate medical attention.

Note: This document has been prepared based on a component or components of this product. Exposure to the component is not expected through routine laboratory use.



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