



## ZPure™ Glass Indicating Oxygen Purifier

Item	Description	Fittings
202236-B	ZPure Glass Indicating Oxygen Purifier	1/8" Brass
202236-SS	ZPure Glass Indicating Oxygen Purifier	1/8" Stainless Steel
202237-B	ZPure Glass Indicating Oxygen Purifier	1/4" Brass
202237-SS	ZPure Glass Indicating Oxygen Purifier	1/4" Stainless Steel

## Warnings

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

### WARNING



**Do not pass air or oxidizing gases in concentrations above 0.1% through this filter! 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 or cartridge replacement does not result in rapid reaction or dangerous heat generation.**

**Maximum pressure 6.8 bar / 680 kPa (100psig). Wear eye protection and use caution when working with pressurized systems.**

**Do not expose the protective outer plastic tube to solvents.**

**Do not use without the protective outer plastic tube in place.**

**Special precautions might be required when using hydrogen. Consult local regulations and your company's safety procedures.**

## Filter Setup and Use



This compact ZPure Glass Indicating Oxygen Purifier is designed to remove oxygen from chromatography carrier gas streams. The Indicating Oxygen Purifier is intended for use with non-oxidizing gases such as He, Ar, N<sub>2</sub>, H<sub>2</sub> or CH<sub>4</sub>, with maximum recommended flow rate of 150cc/min. It has a light-green inner section that changes color to gray when its adsorption capacity is depleted. The purifier consists of a heavy-walled inner glass tube filled with copper-based adsorbent and a green indicator. The glass tube is shielded by an outer clear plastic tube for increased safety if the glass should break. The adsorbents form copper oxide in the presence of oxygen; no gas is generated. Maximum pressure is 6.8 bar (100psig). Approximate dimensions are 3.5 cm x 26 cm including fittings; fittings are either 1/4" or 1/8" compression fittings.

**Installation:** The ZPure Glass Indicating Oxygen Purifier is delivered in the active state, filled with helium. It is ready for use, but it is recommended that the purifier be purged with the gas you will be using. To connect in-line, first purge the gas line to remove air or oxygen. While maintaining a low purge rate of 10 to 30cc/min, quickly remove the end plugs from both ends of the oxygen purifier, then attach the purifier to the gas line. When connecting to a gas line, use two wrenches at each coupling. Tightening the fittings by holding the purifier while torquing the nut or using the wrenches on opposite ends of the purifier can break the glass. Attach the outlet end of the purifier to the instrument, then continue purging the entire system until a total of 1 to 2 liters of gas has been flushed through.

**Warning:** If you are using hydrogen or hazardous gas, additional special procedures may be called for. Consult your company's safety procedures.

**Note:** While the end plugs are removed from the purifier during installation, the active adsorbent will react with air at a rate limited by diffusion into the adsorbent, and the purifier may warm slightly. As long as the purifier is attached to the gas line within a few minutes, purifier heating and the loss of oxygen-adsorbing capacity will be negligible. It is generally best practice to mount any gas purifier in a vertical orientation to ensure optimal bed packing.

**Source Document: 995015 - CRS ZPure Glass Indicating Oxygen Purifier.doc**

**Version 3**

Printed in USA

Chromatography Research Supplies, Inc.  
2601 Technology Drive  
Louisville, KY 40299  
USA

tel. (+1) 502-491-6300

[www.chromres.com](http://www.chromres.com)

**Recycling**



For recycling contact your CRS distributor