

ZPure™ PolyGas II purifiers

Compression fittings

Introduction

Pure gas is critical requirement in gas chromatography, spectroscopy, optics, lithography, and numerous other applications in manufacturing and analytical laboratories. The ZPure™ PolyGas II purifiers removes a wide range of contaminants including H₂O, CO₂, halogenated compounds, siloxanes, hydrocarbons (C5 and heavier), sulfur-containing molecules, ammonia and other gases. It can be used to purify inert gases, He, Ar, N₂, and H₂, and clean dry air (CDA), to low-ppb levels. A common application is for conditioning the hydrogen and zero air lines used GC flame ionization detectors.



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 use with supply gas H₂O concentration or O₂ concentration greater than 0.1%. Contains molecular sieve which may become very hot in contact with liquid water. Do not use with liquids.
- 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 ZPure 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. To connect in-line, first purge the gas line with supply gas. While maintaining a low purge rate of 10 to 30 cc/min, 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

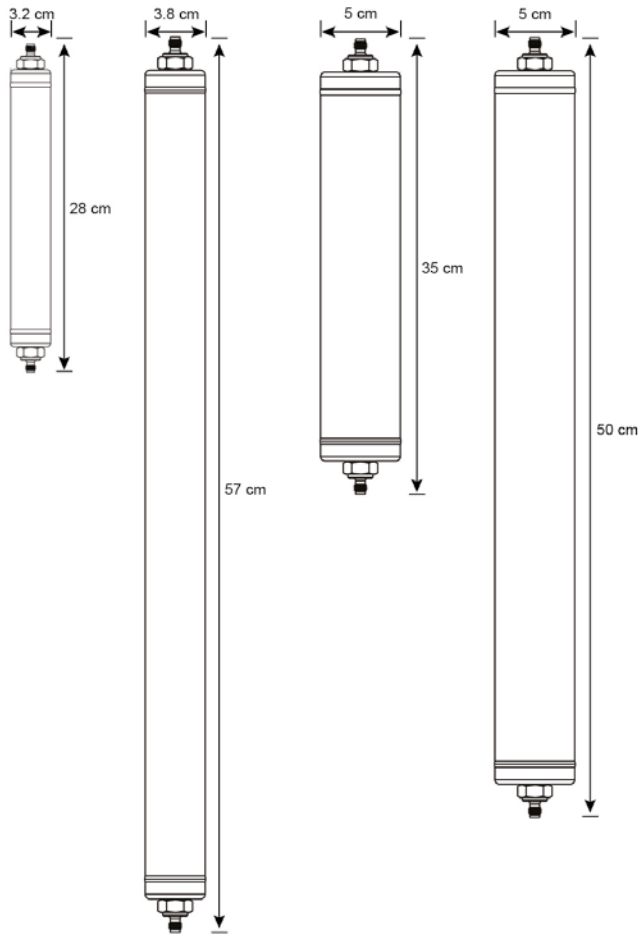


Figure 1. From left to right: 130 cc, 475 cc, 500 cc, 750 cc

750 cc

| | |
|----------------------|----------------------|
| 1/8" Brass | 1/4" Brass |
| 202287XL-B | 202288XL-B |
| 1/8" Stainless steel | 1/4" Stainless steel |
| 202287XL-SS | 202288XL-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.

US
AGENT

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Product Numbers

| 130 cc | |
|----------------------|----------------------|
| 1/8" Brass | 1/4" Brass |
| 202287-B | 202288-B |
| 1/8" Stainless steel | 1/4" Stainless steel |
| 202287-SS | 202288-SS |
| 475 cc | |
| 1/8" Brass | 1/4" Brass |
| 202287L-B | 202288L-B |
| 1/8" Stainless steel | 1/4" Stainless steel |
| 202287L-SS | 202288L-SS |
| 500 cc | |
| 1/8" Brass | 1/4" Brass |
| 202287D-B | 202288D-B |
| 1/8" Stainless steel | 1/4" Stainless steel |
| 202287D-SS | 202288D-SS |