

## ZPure™ PolyGas I purifiers

### Quick connect 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 I purifiers removes a wide range of contaminants including O<sub>2</sub>, H<sub>2</sub>O, CO<sub>2</sub>, CO halogenated compounds, siloxanes, hydrocarbons (C5 and heavier), sulfur-containing molecules, ammonia and other gases. It can be used to purify inert gases, He, Ar, N<sub>2</sub>, and H<sub>2</sub>, making it ideal for use with GC and GC/MS carrier gas lines.

It is also recommended for any application requiring ultra-pure gas free from oxygen, water, and hydrocarbons.



#### 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 13.8 bar / 200 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 H<sub>2</sub>O concentration or O<sub>2</sub> 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 quick connect 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. Install the quick connect tube fittings ends to the gas lines. 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. Attach the outlet end of the filter by screwing the quick connect fitting nut onto the adapter. This will open both check valves on the outlet side.
5. Attach the inlet end of the filter by screwing the quick connect fitting nut onto the adapter. This will open the check valves in both the quick connect tube fitting and the quick connect adapter, allowing gas to flow through.
6. Purge the entire system until a total of 1 to 2 liters of gas has been flushed through.
7. Leak check all connections.

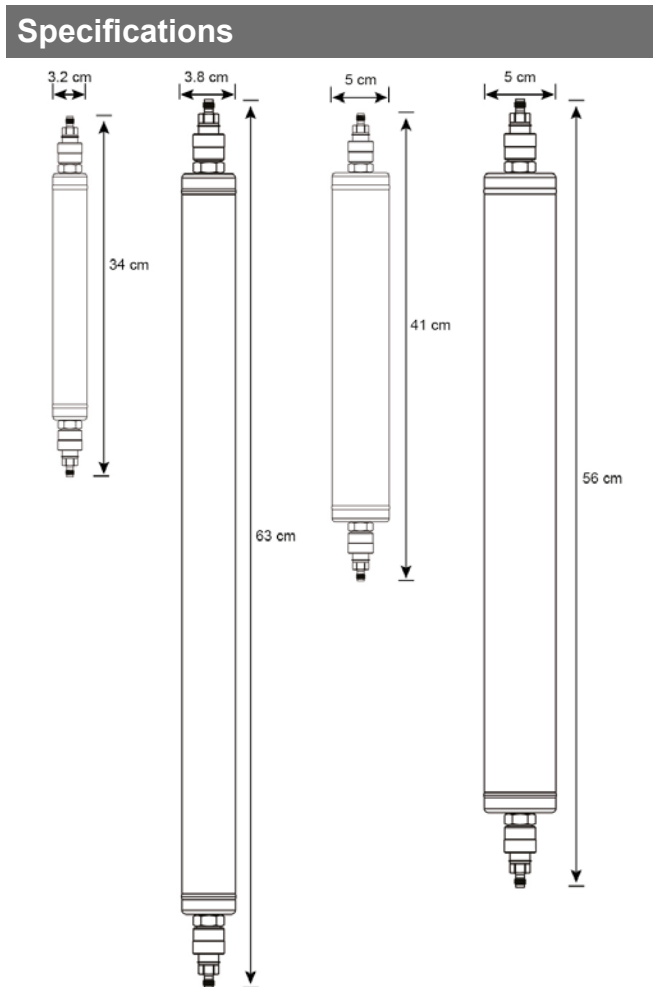


Figure 1. From left to right: 130 cc, 475 cc, 500 cc, 750 cc

### Product numbers

130 cc	
1/8" Brass	1/4" Brass
202285-B-QC	202286-B-QC
1/8" Stainless steel	1/4" Stainless steel
202285-SS-QC	202286-SS-QC
475 cc	
1/8" Brass	1/4" Brass
202285L-B-QC	202286L-B-QC
1/8" Stainless steel	1/4" Stainless steel
202285L-SS-QC	202286L-SS-QC
500 cc	
1/8" Brass	1/4" Brass
202285D-B-QC	202286D-B-QC
1/8" Stainless steel	1/4" Stainless steel
202285D-SS-QC	202286D-SS-QC

750 cc	
1/8" Brass	1/4" Brass
202285XL-B-QC	202286XL-B-QC
1/8" Stainless steel	1/4" Stainless steel
202285XL-SS-QC	202286XL-SS-QC
Replacement cartridge	
130 cc	
Brass	Stainless steel
202RP1-B-QC	202RP1-SS-QC
475 cc	
Brass	Stainless steel
202RP1L-B-QC	202RP1L-SS-QC
500 cc	
Brass	Stainless steel
202RP1D-B-QCB	202RP1D-SS-QC
750 cc	
Brass	Stainless steel
202RP1XL-B-QC	202RP1XL-SS-QC

### References



#### Recycling

Please contact Trajan for information regarding recycling purifier products.

### Information and support

Visit [www.trajanscimed.com](http://www.trajanscimed.com) or contact [techsupport@trajanscimed.com](mailto:techsupport@trajanscimed.com)

Specifications are subject to change without notice.

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