

## Accessories | ZPure™ O<sub>2</sub>/H<sub>2</sub>O

Pure gas is a critical requirement in gas chromatography, spectroscopy, optics, lithography, and numerous other applications in manufacturing and analytical laboratories. The ZPure™ line of filters remove a wide range of contaminants to trace levels.

### Features and benefits

- High efficiency in-line traps with outstanding capacity.
- High quality activated adsorbents for long purifier life and efficient contaminant removal.
- Various size and fitting configurations to fit existing installations.
- Filter lifetime is dependent on quality of incoming gas, and the flow rate.
- Individually leak-tested.

### Recommended applications

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 and moisture.



### Product specifications

ZPure™ O <sub>2</sub> /H <sub>2</sub> O							
Volume	Function	Capacity (nominal-max)	Outlet concentration at nominal flow rate	Flow rate (nominal-max)	Max pressure	Dimensions	Fittings
130 cc	Removes oxygen and water from inert gases	275 - 463 cc oxygen 4.3 - 6.6 g water	Oxygen < 5 ppb	430 cc/min - 1.4 SLPM	68.9 bar / 1000 psi	3.2 cm x 28 cm	1/8" and 1/4" brass and stainless steel compression
475 cc		1020 - 1691 cc oxygen 15.9 - 24.1 g water		1.3 - 4.9 SLPM		3.8 cm x 57 cm	
500 cc		1060 - 1780 cc oxygen 16.7 - 25.3 g water	Moisture < 20 ppb	1.6 - 5.2 SLPM	13.8 bar / 200 psi	5 cm x 35 cm	
750 cc		1500 - 2671 cc oxygen 25.0 - 38.0 g water	2.5 - 7.7 SLPM	5 cm x 50 cm			

- 1) Oxygen capacity is a function of flow rate - the nominal oxygen capacity is determined using the nominal flow rate. The maximum oxygen capacity is determined using 30% of the nominal flow rate.
- 2) The nominal water capacity is determined for an inlet impurity level of 200 ppm H<sub>2</sub>O. The maximum water capacity is determined for an inlet impurity level of 10000 ppm H<sub>2</sub>O.
- 3) The nominal hydrocarbon capacity is determined for an inlet impurity level of 500 ppm pentane. The maximum hydrocarbon capacity is determined for an inlet impurity level of 2300 ppm pentane.
- 4) Nominal flow rate is the recommended flow rate for an estimated gas purifier life of 1 year. This assumes the following inlet impurities: 1 ppm O<sub>2</sub>, 1 ppm H<sub>2</sub>O, and 1 ppm HC (C5 and heavier). The maximum recommended flow rate is recommended for intermittent use only.

For more information about this product visit [www.trajanscimed.com](http://www.trajanscimed.com) or contact [techsupport@trajanscimed.com](mailto:techsupport@trajanscimed.com)