
ZPure™

Gas Purifiers and Filters



Purity by Design



YOUR GLOBAL SCIENCE PARTNER

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Gas Filter Product Finder

Glass (Indicating) Filters



Page / Filter Type	PolyGas I	PolyGas II	ZPure O2	ZPure H2O HSMI	ZPure H2O	ZPure H2O/HC
5	O2, H2O, CO2, CO, HC	H2O, CO2, HC				
6			O2	H2O		
7					H2O	H2O, HC

Stainless Steel Filters



Page / Filter Type	ZPure Dual	ZPure O2	ZPure HC	ZPure H2O	ZPure CO2	ZPure O2/H2O	PolyGas I	PolyGas II
9	O2, H2O	O2						
10			HC					
12				H2O				
14					CO2			
16						O2, H2O		
18							O2, H2O, CO2, CO, HC	
20								H2O, CO2, HC
22				H2O				
23		O2						

Stainless Steel Filters - Extra Large



Page / Filter Type	ZPure M HC	ZPure M H2O	ZPure M CO2	ZPure M PolyGas II	ZPure M O2/H2O
24	HC				
24		H2O			
24			CO2		
24				H2O, CO2, HC	
24					O2, H2O

General Purpose Purifiers - Metal



Page / Filter Type	O2	H2O	HC	CO2
25	O2			
25		O2		
25			HC	
25				CO2

AFS Purifiers



Page / Filter Type	AFS I	AFS I (non Hazardous)	AFS II	AFS III
26	O2, H2O, HC	O2, H2O, HC		
26			H2O, HC	
26				H2O

ZPure™ Gas Purifiers and Filters - Indicating

An extensive range of convenient point-of-use purifiers with high sensitivity visual indicators for oxygen and water breakthrough

- High capacity adsorbents with well-characterised performance
- Integrated stainless steel frits for particle removal
- Fluoroelastomer seals for inertness
- Individually helium leak-tested
- Available with compression and quick connect fittings in brass and stainless steel, in a **glass body shielded by an outer polycarbonate protective body**

Note: Filter lifetime is dependent on quality of the incoming gas and the flow rate.

For more detailed specifications on individual applications, please contact Greyhound at sales@greyhoundchrom.com



Compression Fittings

Seal well and can be broken and retightened many times if used properly. Compatible with industry standard ferrules and tubing



Quick Connect Fittings

Used for fast connections and replacements. They have superior seals using O-rings and check valves to protect gas lines.



Oxygen Adsorbent:
Top: Full Capacity; Bottom: Depleted.



Moisture Adsorbent:
Top: Full Capacity; Bottom: Depleted.



CoFree™ Adsorbent:
Top: Full Capacity; Bottom: Depleted.

ZPure PolyGas I Purifiers - Glass

The ZPure PolyGas I Purifier removes O₂, H₂O, CO₂, CO, halogenated compounds, siloxanes, hydrocarbons heavier than butane, sulfur-containing molecules, and ammonia from inert gases, He, Ar, N₂ and H₂. It can be used to provide end-point detection for use with other ZPure Filters. The indicators signal oxygen breakthrough when the adsorbent changes from **GREEN** to **GREY** and the moisture indicator changes from **BLUE** to **BROWN**.



38cc								
Capacity	Efficiency	Nominal Flow Rate	Maximum Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
O ₂ : 110cc H ₂ O: 1.4g HC: 1.0g	O ₂ : < 5ppb H ₂ O: < 20ppb HC: < 5ppb	200mL/min	400mL/min*	NO	11 bar / 160psi	3.8cm x 26.3cm	1/8" Brass Compression	17-202314-B
							1/8" Stainless Steel Compression	17-202314-SS
							1/4" Brass Compression	17-202315-B
							1/4" Stainless Steel Compression	17-202315-SS
						3.8cm x 33cm (26.8 cm w/o Fittings)	1/8" Brass Quick Connect	17-202314-B-QC
							1/8" Stainless Steel Quick Connect	17-202314-SS-QC
							1/4" Brass Quick Connect	17-202315-B-QC
							1/4" Stainless Steel Quick Connect	17-202315-SS-QC

ZPure PolyGas II Purifiers - Glass

The ZPure PolyGas II Purifier removes H₂O, CO₂, halogenated compounds, siloxanes, hydrocarbons heavier than butane, sulfur-containing molecules and ammonia from inert gases, He, Ar, N₂ and H₂. It can be used to provide end-point detection for use with other ZPure Filters. The moisture indicator signals breakthrough when the adsorbent changes from **BLUE** to **BROWN**.



38cc								
Capacity	Efficiency	Nominal Flow Rate	Maximum Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
H ₂ O: 1.9g HC: 1.8g	H ₂ O: < 20ppb HC: < 5ppb	200mL/min	400mL/min*	NO	11 bar / 160psi	3.8cm x 26.3cm	1/8" Brass Compression	17-202318-B
							1/8" Stainless Steel Compression	17-202318-SS
							1/4" Brass Compression	17-202319-B
							1/4" Stainless Steel Compression	17-202319-SS
						3.8cm x 33cm (26.8 cm w/o Fittings)	1/8" Brass Quick Connect	17-202318-B-QC
							1/8" Stainless Steel Quick Connect	17-202318-SS-QC
							1/4" Brass Quick Connect	17-202319-B-QC
							1/4" Stainless Steel Quick Connect	17-202319-SS-QC

* For estimated life at higher flow rates, contact - info@greyhoundchrom.com

ZPure O₂ Indicating Filters - Glass

The ZPure O₂ Filter removes oxygen to low ppb levels from He, Ar, N₂ or methane. The indicator signals oxygen breakthrough when adsorbent changes from **GREEN** to **GREY**.

The ZPure Glass Filters and Purifiers are available with standard compression fittings or quick connect fittings in 1/4" and 1/8" brass and stainless steel.



10cc

Capacity	Efficiency	Nominal Flow Rate	Maximum Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
O ₂ : 45cc	< 5ppb	200mL/min	2 SLPM	HAZARDOUS UN3190	11 bar / 160 psi	3.8cm x 26.3cm	1/8" Brass Compression	17-202236-B
							1/8" Stainless Steel Compression	17-202236-SS
							1/4" Brass Compression	17-202237-B
							1/4" Stainless Steel Compression	17-202237-SS
						3.8cm x 33cm (26.8cm w/o Fittings)	1/8" Brass Quick Connect	17-202236-B-QC
							1/8" Stainless Steel Quick Connect	17-202236-SS-QC
							1/4" Brass Quick Connect	17-202237-B-QC
							1/4" Stainless Steel Quick Connect	17-202237-SS-QC

ZPure H₂O HSMI Indicating Filters - Glass

The ZPure H₂O (HSMI) High Sensitivity Moisture Indicating Filter is for applications requiring high efficiency moisture removal. The high sensitivity indicator signals breakthrough at 1ppm water and changes from **BLUE** to **BROWN**.

Gases to be purified - He, N₂, H₂, Ar, Air

The ZPure Glass Filters and Purifiers are available with standard compression fittings or quick connect fittings in 1/4" and 1/8" brass and stainless steel.



46cc

Capacity	Efficiency	Nominal Flow Rate	Maximum Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
H ₂ O: 6g	< 20ppb	200mL/min	2 SLPM	NO	11 bar / 160 psi	3.8cm x 26.3cm	1/8" Brass Compression	17-202283-B
							1/8" Stainless Steel Compression	17-202283-SS
							1/4" Brass Compression	17-202284-B
							1/4" Stainless Steel Compression	17-202284-SS
						3.8cm x 33cm (26.8cm w/o Fittings)	1/8" Brass Quick Connect	17-202283-B-QC
							1/8" Stainless Steel Quick Connect	17-202283-SS-QC
							1/4" Brass Quick Connect	17-202284-B-QC
							1/4" Stainless Steel Quick Connect	17-202284-SS-QC

ZPure H₂O Indicating Filters - Glass

The ZPure H₂O Filter removes moisture from H₃, N₂, H₂, Ar and Air to low ppb levels. The Co-Free moisture indicator signals breakthrough when it changes from **GREEN** to **BLUE** at 4-6% relative humidity

The gas to be purified contacts only glass, metal and the adsorbents. Dual Seal Design: In this design the heavy-walled inner glass tube is protected by a sealed outer plastic tube. This design provides extra protection if the glass tube were to fail, the gas system is still fully protected against leaks. An internal frit at each end prevents particulate contamination.



46cc

Capacity	Efficiency	Nominal Flow Rate	Maximum Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
H ₂ O: 6g	< 20ppb	200mL/min	2 SLPM	NO	11 bar / 160 psi	3.8cm x 26.3cm	1/8" Brass Compression	17-202234-B
							1/8" Stainless Steel Compression	17-202234-SS
							1/4" Brass Compression	17-202235-B
							1/4" Stainless Steel Compression	17-202235-SS
						3.8cm x 33cm (26.8cm w/o Fittings)	1/8" Brass Quick Connect	17-202234-B-QC
							1/8" Stainless Steel Quick Connect	17-202234-SS-QC
							1/4" Brass Quick Connect	17-202235-B-QC
							1/4" Stainless Steel Quick Connect	17-202235-SS-QC

ZPure H₂O/HC Indicating Filters - Glass

The ZPure H₂O/HC Filter removes moisture and hydrocarbons from He, N₂, H₂, Ar, and Air. The Co-Free moisture indicator signals breakthrough when it changes from **GREEN** to **BLUE** at low relative humidity to warn of leaks in the gas stream.

Gas lines are protected from dust by 10um frits at both ends of the filter. Dual Seal Design: In this design the heavy-walled inner glass tube is protected by a sealed outer plastic tube. This design provides extra protection if the glass tube were to fail, the gas system is still fully protected against leaks. An internal frit at each end prevents particulate contamination.



46cc

Capacity	Efficiency	Nominal Flow Rate	Maximum Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
H ₂ O: 3g HC: 2g	H ₂ O: < 20ppb HC: < 5ppb	200mL/min	2 SLPM	NO	11 bar / 160 psi	3.8cm x 26.3cm	1/8" Brass Compression	17-202256-B
							1/8" Stainless Steel Compression	17-202256-SS
							1/4" Brass Compression	17-202257-B
							1/4" Stainless Steel Compression	17-202257-SS
						3.8cm x 33cm (26.8cm w/o Fittings)	1/8" Brass Quick Connect	17-202256-B-QC
							1/8" Stainless Steel Quick Connect	17-202256-SS-QC
							1/4" Brass Quick Connect	17-202257-B-QC
							1/4" Stainless Steel Quick Connect	17-202257-SS-QC

For high purity applications, such as GCMS, the ZPure PolyGas II Purifier is recommended.

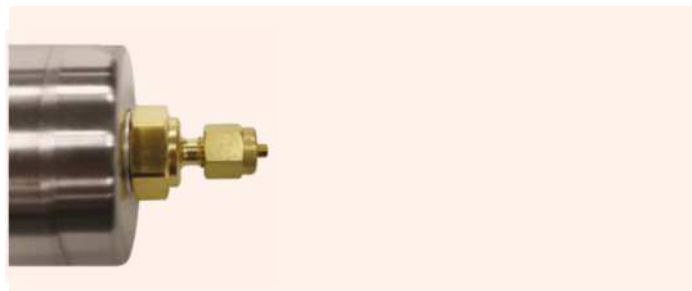
ZPure Stainless Steel Purifiers and Filters

- High-Efficiency Inline 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
- Available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc.
- The ZPure Purifiers are available with standard compression and quick connect fittings, in 1/4" and 1/8" brass and stainless steel and with push-to-connect fittings in 1/4" and 6mm nickel plated brass



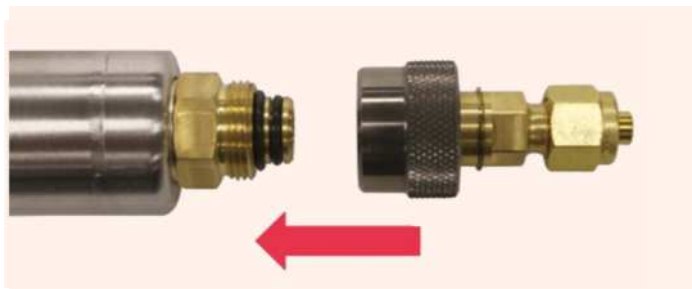
Compression Fittings

Seal well and can be broken and retightened many times if used properly. Compatible with industry standard ferrules and tubing



Quick Connect Fittings

Used for fast connections and replacements. They have superior seals using O-rings and check valves to protect gas lines.



Push to Connect Fittings

Used to connect plastic tubing with a quick and easy connection. Push-to-Connect fittings have lower pressure ratings and permeation through plastic tubing can have some effect on the ultimate purity level of the gas.



ZPure Dual Filters

Protect the stationary phase of your column from oxygen and water degradation with the ZPure Dual Filter. It is a compact purifier designed for GC/MS carrier gas lines to improve baseline and sensitivity.

ZPure Dual Filter removes oxygen and moisture from He, Ar, N₂, H₂ and methane to low ppb levels, with very high capacity in a compact package.

The ZPure Dual Filter is available in one 130cc size filter with standard compression fittings in 1/4" and 1/8" brass and stainless steel.



130cc							
Capacity ¹	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
O ₂ : 600cc H ₂ O: 6g	O ₂ : < 5 ppb H ₂ O: < 20ppb	Nominal ² 430cc/min Maximum ³ 1.4 SLPM	SMALL QUANTITY EXCEPTION	68.9 bar / 1000 psi	3.2cm x 28 cm	1/8" Brass Compression	17-202206-B
						1/8" Stainless Steel Compression	17-202206-SS
						1/4" Brass Compression	17-202207-B
						1/4" Stainless Steel Compression	17-202207-SS

- 1) Oxygen capacity is a function of flow rate - the oxygen capacity is determined using the nominal flow rate. The water capacity is determined for an inlet impurity level at 200ppm H₂O
- 2) The 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 O₂ and 1ppm H₂O.
- 3) The maximum recommended flow rate is recommended for intermittent use only

ZPure O₂ Filters

The ZPure O₂ Filter removes oxygen from He, Ar, N₂, H₂ and methane to low ppb levels, with very high capacity in a compact package.

The ZPure O₂ Filter is available with standard compression fittings or quick connect fittings in 1/4" and 1/8" brass and stainless steel



130cc							
Capacity ¹	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number
O ₂ : 2500cc	O ₂ : < 5ppb	Nominal ² 1 SLPM Maximum ³ 10 SLPM	HAZARDOUS UN3190	68.9 bar / 1000 psi	3.2cm x 28cm	1/8" Brass Compression	17-202216-B
						1/8" Stainless Steel Compression	17-202216-SS
						1/4" Brass Compression	17-202217-B
						1/4" Stainless Steel Compression	17-202217-SS
				11.8 bar / 200 psi	3.2cm x 34cm (28cm w/o Fittings)	1/8" Brass Quick Connect	17-202216-B-QC
						1/8" Stainless Steel Quick Connect	17-202216-SS-QC
						1/4" Brass Quick Connect	17-202217-B-QC
						1/4" Stainless Steel Quick Connect	17-202217-SS-QC

- 1) Oxygen capacity is a function of flow rate - the oxygen capacity is determined using the nominal flow rate.
- 2) The 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 O₂.
- 3) The maximum recommended flow rate is recommended for intermittent use only

ZPure Hydrocarbon Filters



The ZPure HC Filter will remove hydrocarbons heavier than butane from inert gases, He, Ar, N₂, H₂ and clean dry air (CDA) to low ppb levels. It is also recommended for most applications that require hydrocarbon-free gas and is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure HC filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel, or metal push-to-connect fittings in 1/4" and 6mm for plastic tubing and non-carrier gas lines.

130cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ HC*: 11 g Maximum ² HC: 36 g	< 5ppb	Nominal ³ 1 SLPM Maximum ⁴ 10 SLPM	NO	68.9 bar / 1000 psi	3.2cm x 28cm	1/8" Brass Compression	17-202232-B
						1/8" Stainless Steel Compression	17-202232-SS
						1/4" Brass Compression	17-202233-B
						1/4" Stainless Steel Compression	17-202233-SS
				13.8 bar / 200 psi	3.2cm x 34cm (28cm w/o Fittings)	1/8" Brass Quick Connect	17-202232-B-QC
						1/8" Stainless Steel Quick Connect	17-202232-SS-QC
						1/4" Brass Quick Connect	17-202233-B-QC
						1/4" Stainless Steel Quick Connect	17-202233-SS-QC
				10.3 bar / 150 psi	3.2cm x 25.5 cm	1/4" Nickel Plated Brass Push-To-Connect	17-202232-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202232-6-PC

475cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ HC*: 40 g Maximum ² HC: 131 g	< 5ppb	Nominal ³ 3.7 SLPM Maximum ⁴ 36 SLPM	NO	68.9 bar / 1000 psi	3.8cm x 57cm	1/8" Brass Compression	17-202232L-B
						1/8" Stainless Steel Compression	17-202232L-SS
						1/4" Brass Compression	17-202233L-B
						1/4" Stainless Steel Compression	17-202233L-SS
				13.8 bar / 200 psi	3.8cm x 63cm (57cm w/o Fittings)	1/8" Brass Quick Connect	17-202232L-B-QC
						1/8" Stainless Steel Quick Connect	17-202232L-SS-QC
						1/4" Brass Quick Connect	17-202233L-B-QC
						1/4" Stainless Steel Quick Connect	17-202233L-SS-QC
				10.3 bar / 150 psi	3.8cm x 54.5cm	1/4" Nickel Plated Brass Push-To-Connect	17-202232L-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202232L-6-PC

1) The nominal hydrocarbon capacity is determined by an inlet impurity level of 500 ppm pentane.

2) The maximum hydrocarbon capacity is determined for an inlet impurity level of 2300 ppm pentane.

3) The 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 hydrocarbons (C5 and heavier)

4) The maximum recommended flow rate is recommended for intermittent use only

ZPure Hydrocarbon Filters cont.



The ZPure HC Filter will remove hydrocarbons heavier than butane from inert gases, He, Ar, N₂, H₂ and clean dry air (CDA) to low ppb levels. It is also recommended for most applications that require hydrocarbon-free gas and is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure HC filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel, or metal push-to-connect fittings in 1/4" and 6mm for plastic tubing and non-carrier gas lines.

500cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ HC: 42 g Maximum ² HC: 137g	< 5ppb	Nominal ³ 3.8 SLPM Maximum ⁴ 38 SLPM	NO	13.8 bar / 200 psi	5cm x 35cm	1/8" Brass Compression	17-202232D-B
						1/8" Stainless Steel Compression	17-202232D-SS
						1/4" Brass Compression	17-202233D-B
						1/4" Stainless Steel Compression	17-202233D-SS
					5cm x 41cm (35cm w/o Fittings)	1/8" Brass Quick Connect	17-202232D-B-QC
						1/8" Stainless Steel Quick Connect	17-202232D-SS-QC
						1/4" Brass Quick Connect	17-202233D-B-QC
						1/4" Stainless Steel Quick Connect	17-202233D-SS-QC
				10.3 bar / 150 psi	5cm x 33 cm	1/4" Nickel Plated Brass Push-To-Connect	17-202232D-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202232D-6-PC

750cc							
Capacity	Efficiency	Flow Rate ³	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ HC: 67 g Maximum ² HC: 206 g	< 5ppb	Nominal ³ 5.8 SLPM Maximum ⁴ 57 SLPM	NO	13.5 bar / 200 psi	5cm x 50cm	1/8" Brass Compression	17-202232XL-B
						1/8" Stainless Steel Compression	17-202232XL-SS
						1/4" Brass Compression	17-202233XL-B
						1/4" Stainless Steel Compression	17-202233XL-SS
					5cm x 56cm (50 cm w/o Fittings)	1/8" Brass Quick Connect	17-202232XL-B-QC
						1/8" Stainless Steel Quick Connect	17-202232XL-SS-QC
						1/4" Brass Quick Connect	17-202233XL-B-QC
						1/4" Stainless Steel Quick Connect	17-202233XL-SS-QC
				10.3 bar / 150 psi	5cm x 47.5cm	1/4" Nickel Plated Brass Push-To-Connect	17-202232XL-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202232XL-6-PC

1) The nominal hydrocarbon capacity is determined by an inlet impurity level of 500 ppm pentane.

2) The maximum hydrocarbon capacity is determined for an inlet impurity level of 2300 ppm pentane.

3) The 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 hydrocarbons (C5 and heavier)

4) The maximum recommended flow rate is recommended for intermittent use only

ZPure H₂O Filters



The ZPure H₂O Filter removes water from inert gases, He, Ar, N₂, H₂, methane and clean dry air (CDA) to low ppb levels with very high capacity. It is recommended for any application that requires ultra-dry gas and is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure H₂O Filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel, or metal push-to-connect fittings in 1/4" and 6mm for plastic tubing and non-carrier gas lines.

130cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ H ₂ O 12g Maximum ² 22 g	< 20 ppb	Nominal ³ 1 SLPM Maximum ⁴ 10 SLPM	NO	68.9 bar / 1000 psi	3.2cm x 28cm	1/8" Brass Compression	17-202230-B
						1/8" Stainless Steel Compression	17-202230-SS
						1/4" Brass Compression	17-202231-B
						1/4" Stainless Steel Compression	17-202231-SS
				13.8 bar / 200 psi	3.2cm x 34cm (28 cm w/o Fittings)	1/8" Brass Quick Connect	17-202230-B-QC
						1/8" Stainless Steel Quick Connect	17-202230-SS-QC
						1/4" Brass Quick Connect	17-202231-B-QC
						1/4" Stainless Steel Quick Connect	17-202231-SS-QC
				10.3 bar / 100 psi	3.2cm x 25.5cm	1/4" Nickel Plated Brass Push-To-Connect	17-202230-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202230-6-PC

475cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ H ₂ O: 45 g Maximum ² H ₂ O: 79g	< 20ppb	Nominal ³ 3.7 SLPM Maximum ⁴ 36 SLPM	NO	68.9 bar / 1000 psi	3.8cm x 57cm	1/8" Brass Compression	17-202230L-B
						1/8" Stainless Steel Compression	17-202230L-SS
						1/4" Brass Compression	17-202231L-B
						1/4" Stainless Steel Compression	17-202231L-SS
				13.8 bar / 200 psi	3.8cm x 63cm (57 cm w/o Fittings)	1/8" Brass Quick Connect	17-202230L-B-QC
						1/8" Stainless Steel Quick Connect	17-202230L-SS-QC
						1/4" Brass Quick Connect	17-202231L-B-QC
						1/4" Stainless Steel Quick Connect	17-202231L-SS-QC
				10.3 bar / 150 psi	3.8cm x 54.5cm	1/4" Nickel Plated Brass Push-To-Connect	17-202230L-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202230L-6-PC

- 1) The nominal water capacity is determined by an inlet impurity level of 200 ppm H₂O.
- 2) The maximum water capacity is determined for an inlet impurity level of 10,000 ppm H₂O.
- 3) The 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 H₂O.
- 4) The maximum recommended flow rate is recommended for intermittent use only

ZPure H₂O Filters cont.



The ZPure H₂O Filter removes water from inert gases, He, Ar, N₂, H₂, methane and clean dry air (CDA) to low ppb levels with very high capacity. It is recommended for any application that requires ultra-dry gas and is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure H₂O Filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel, or metal push-to-connect fittings in 1/4" and 6mm for plastic tubing and non-carrier gas lines.

500cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ H ₂ O: 48 g Maximum ² H ₂ O: 83 g	< 20ppb	Nominal ³ 3.8 SLPM Maximum ⁴ 38 SLPM	NO	13.8 bar / 200 psi	5cm x 35cm	1/8" Brass Compression	17-202230D-B
						1/8" Stainless Steel Compression	17-202230D-SS
						1/4" Brass Compression	17-202231D-B
						1/4" Stainless Steel Compression	17-202231D-SS
					5cm x 41cm (35cm w/o Fittings)	1/8" Brass Quick Connect	17-202230D-B-QC
						1/8" Stainless Steel Quick Connect	17-202230D-SS-QC
						1/4" Brass Quick Connect	17-202231D-B-QC
						1/4" Stainless Steel Quick Connect	17-202231D-SS-QC
				10.3 bar / 100 psi	5cm x 33cm	1/4" Nickel Plated Brass Push-To-Connect	17-202230D-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202230D-6-PC

750cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ H ₂ O: 71 g Maximum ² H ₂ O: 124 g	< 20ppb	Nominal ³ 5.8 SLPM Maximum ⁴ 57 SLPM	NO	13.8 bar / 200 psi	5cm x 50cm	1/8" Brass Compression	17-202230XL-B
						1/8" Stainless Steel Compression	17-202230XL-SS
						1/4" Brass Compression	17-202231XL-B
						1/4" Stainless Steel Compression	17-202231XL-SS
					5cm x 56cm (50 cm w/o Fittings)	1/8" Brass Quick Connect	17-202230XL-B-QC
						1/8" Stainless Steel Quick Connect	17-202230XL-SS-QC
						1/4" Brass Quick Connect	17-202231XL-B-QC
						1/4" Stainless Steel Quick Connect	17-202231XL-SS-QC
				10.3 bar / 100 psi	5cm x 47.5cm	1/4" Nickel Plated Brass Push-To-Connect	17-202230XL-4-PC
						6 mm Nickel Plated Brass Push-To-Connect	17-202230XL-6-PC

1) The nominal water capacity is determined by an inlet impurity level of 200 ppm H₂O.

2) The maximum water capacity is determined for an inlet impurity level of 10,000 ppm H₂O.

3) The 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 H₂O.

4) The maximum recommended flow rate is recommended for intermittent use only

ZPure CO₂ Filters



The ZPure CO₂ Filter removes carbon dioxide from inert gases, He, Ar, N₂, H₂ and clean dry air (CDA) to low ppb levels. The filter functions by consuming carbon dioxide in a reaction with highly-dispersed NaOH on a silicate support. The reaction produces water which remains adsorbed in the purifier. In highly critical applications, consideration should be given to using an additional moisture trap after the CO₂ Filter as a safety measure. It is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure CO₂ Filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

130cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ : CO ₂ : 13 g Maximum ² : CO ₂ : 19 g	< 5 ppb	Nominal ³ : 650 cc/min Maximum ⁴ : Enquire:	HAZARDOUS UN1823	68.9 bar / 1000 psi	3.2cm x 28cm	1/8" Brass Compression	17-202212-B
						1/8" Stainless Steel Compression	17-202212-SS
						1/4" Brass Compression	17-202213-B
						1/4" Stainless Steel Compression	17-202213-SS
				13.8 bar / 200 psi	3.2cm x 34cm (28 cm w/o Fittings)	1/8" Brass Quick Connect	17-202212-B-QC
						1/8" Stainless Steel Quick Connect	17-202212-SS-QC
						1/4" Brass Quick Connect	17-202213-B-QC
						1/4" Stainless Steel Quick Connect	17-202213-SS-QC

475cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ : CO ₂ : 47g Maximum ² : CO ₂ : 69 g	< 5ppb	Nominal ³ : 2.5 SLPM Maximum ⁴ : Enquire	HAZARDOUS UN1823	68.9 bar / 1000 psi	3.8 m x 57cm	1/8" Brass Compression	17-202212L-B
						1/8" Stainless Steel Compression	17-202212L-SS
						1/4" Brass Compression	17-202213L-B
						1/4" Stainless Steel Compression	17-202213L-SS
				13.8 bar / 200 psi	3.8cm x 63cm (57 cm w/o Fittings)	1/8" Brass Quick Connect	17-202212L-B-QC
						1/8" Stainless Steel Quick Connect	17-202212L-SS-QC
						1/4" Brass Quick Connect	17-202213L-B-QC
						1/4" Stainless Steel Quick Connect	17-202213L-SS-QC

- 1) The nominal carbon dioxide capacity is determined by an inlet impurity level of 400 ppm CO₂.
- 2) The maximum carbon dioxide capacity is determined for an inlet impurity level of 1000 ppm CO₂.
- 3) The 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 CO₂.
- 4) For gas flow rates higher than the nominal flow, contact info@greyhoundchrom.com.

ZPure CO₂ Filters cont.



The ZPure CO₂ Filter removes carbon dioxide from inert gases, He, Ar, N₂, H₂ and clean dry air (CDA) to low ppb levels. The filter functions by consuming carbon dioxide in a reaction with highly-dispersed NaOH on a silicate support. The reaction produces water which remains adsorbed in the purifier. In highly critical applications, consideration should be given to using an additional moisture trap after the CO₂ Filter as a safety measure. It is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure CO₂ Filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

500cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal 1: CO ₂ : 50g Maximum 2: CO ₂ : 73g	< 5ppb	Nominal 3: 2.5 SLPM Maximum 4: Enquire	HAZARDOUS UN1823	13.8 bar / 200psi	5cm x 35cm	1/8" Brass Compression	17-202212D-B
						1/8" Stainless Steel Compression	17-202212D-SS
						1/4" Brass Compression	17-202213D-B
						1/4" Stainless Steel Compression	17-202213D-SS
					5cm x 41cm (35cm w/o Fittings)	1/8" Brass Quick Connect	17-202212D-B-QC
						1/8" Stainless Steel Quick Connect	17-202212D-SS-QC
						1/4" Brass Quick Connect	17-202213D-B-QC
						1/4" Stainless Steel Quick Connect	17-202213D-SS-QC

750cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal 1: CO ₂ : 120g Maximum 2: CO ₂ : 110 g	< 5ppb	Nominal 3: 4 SLPM Maximum 4: Enquire	HAZARDOUS UN1823	13.8 bar / 200 psi	5cm x 50cm	1/8" Brass Compression	17-202212XL-B
						1/8" Stainless Steel Compression	17-202212XL-SS
						1/4" Brass Compression	17-202213XL-B
						1/4" Stainless Steel Compression	17-202213XL-SS
					5cm x 56cm (50cm w/o Fittings)	1/8" Brass Quick Connect	17-202212XL-B-QC
						1/8" Stainless Steel Quick Connect	17-202212XL-SS-QC
						1/4" Brass Quick Connect	17-202213XL-B-QC
						1/4" Stainless Steel Quick Connect	17-202213XL-SS-QC

- 1) The nominal carbon dioxide capacity is determined by an inlet impurity level of 400 ppm CO₂.
- 2) The maximum carbon dioxide capacity is determined for an inlet impurity level of 1000 ppm CO₂.
- 3) The 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 CO₂.
- 4) For gas flow rates higher than the nominal flow, contact info@greyhoundchrom.com.

ZPure O₂/H₂O Filters



The ZPure O₂/H₂O Filter removes oxygen and water from inert gases, He, Ar, N₂ and H₂, making it ideal for use with GC and GC/MS carrier gas lines. It differs from the ZPure Dual Filter in that it is completely non-hazardous and is recommended for any application requiring ultra-pure gas, free from oxygen and water. It is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure O₂/H₂O Filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

130 cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 275 cc H ₂ O: 4.3 g Maximum ² CO ₂ : 463 cc H ₂ O: 6.6 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb	Nominal ³ 430 cc/min Maximum ⁴ 1.4 SLPM	NO	68.9 bar / 1000 psi	3.2 cm x 28 cm	1/8" Brass Compression Fittings	17-202295-B
						1/8" Stainless Steel Compression Fittings	17-202295-SS
						1/4" Brass Compression Fittings	17-202296-B
						1/4" Stainless Steel Compression Fittings	17-202296-SS
				13.8 bar / 200 psi	3.2 cm x 34 cm (28 cm w/o fittings)	1/8" Brass Quick Connect Fittings	17-202295-B-QC
						1/8" Stainless Steel Quick Connect Fittings	17-202295-SS-QC
						1/4" Brass Quick Connect Fittings	17-202296-B-QC
						1/4" Stainless Steel Quick Connect Fittings	17-202296-SS-QC

475 cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 1020 cc H ₂ O: 15.9 g Maximum ² O ₂ : 1691 cc H ₂ O: 24.1 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb	Nominal ³ 1.3 SLPM Maximum ⁴ 4.9 SLPM	NO	68.9 bar / 1000 psi	3.8 cm x 57 cm	1/8" Brass Compression Fittings	17-202295L-B
						1/8" Stainless Steel Compression Fittings	17-202295L-SS
						1/4" Brass Compression Fittings	17-202296L-B
						1/4" Stainless Steel Compression Fittings	17-202296L-SS
				13.8 bar / 200 psi	3.8 cm x 63 cm (57 cm w/o fittings)	1/8" Brass Quick Connect Fittings	17-202295L-B-QC
						1/8" Stainless Steel Quick Connect Fittings	17-202295L-SS-QC
						1/4" Brass Quick Connect Fittings	17-202296L-B-QC
						1/4" Stainless Steel Quick Connect Fittings	17-202296L-SS-QC

1) The nominal carbon dioxide capacity is determined by an inlet impurity level of 400 ppm CO₂.

2) The maximum carbon dioxide capacity is determined for an inlet impurity level of 1000 ppm CO₂.

3) The 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 CO₂.

4) For gas flow rates higher than the nominal flow, contact info@greyhoundchrom.com.

ZPure O₂/H₂O Filters cont.



The ZPure O₂/H₂O Filter removes oxygen and water from inert gases, He, Ar, N₂ and H₂, making it ideal for use with GC and GC/MS carrier gas lines. It differs from the ZPure Dual Filter in that it is completely non-hazardous and is recommended for any application requiring ultra-pure gas, free from oxygen and water. It is available in 4 sizes of stainless steel cylinders ranging from 130cc to 750cc. The ZPure O₂/H₂O Filter is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

500 cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 1060 cc H ₂ O: 16.7 g Maximum ² O ₂ : 1780 cc H ₂ O: 25.3 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb	Nominal ³ 1.6 SLPM Maximum ⁴ 5.2 SLPM	NO	13.8 bar / 200 psi	5 cm x 35 cm	1/8" Brass Compression Fittings	17-202295D-B
						1/8" Stainless Steel Compression Fittings	17-202295D-SS
						1/4" Brass Compression Fittings	17-202296D-B
						1/4" Stainless Steel Compression Fittings	17-202296D-SS
					5 cm x 41 cm (35 cm w/o Fittings)	1/8" Brass Quick Connect Fittings	17-202295D-B-QC
						1/8" Stainless Steel Quick Connect Fittings	17-202295D-SS-QC
						1/4" Brass Quick Connect Fittings	17-202296D-B-QC
						1/4" Stainless Steel Quick Connect Fittings	17-202296D-SS-QC

750 cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 1500 cc H ₂ O: 25.0 g Maximum ² O ₂ : 2671 cc H ₂ O: 38.0 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb	Nominal ³ 2.5 SLPM Maximum ⁴ 7.7 SLPM	NO	13.8 bar / 200 psi	5 cm x 50 cm	1/8" Brass Compression Fittings	17-202295XL-B
						1/8" Stainless Steel Compression Fittings	17-202295XL-SS
						1/4" Brass Compression Fittings	17-202296XL-B
						1/4" Stainless Steel Compression Fittings	17-202296XL-SS
					5 cm x 56 cm (50 cm w/o fittings)	1/8" Brass Quick Connect Fittings	17-202295XL-B-QC
						1/8" Stainless Steel Quick Connect Fittings	17-202295XL-SS-QC
						1/4" Brass Quick Connect Fittings	17-202296XL-B-QC
						1/4" Stainless Steel Quick Connect Fittings	17-202296XL-SS-QC

- 1) The nominal carbon dioxide capacity is determined by an inlet impurity level of 400 ppm CO₂.
- 2) The maximum carbon dioxide capacity is determined for an inlet impurity level of 1000 ppm CO₂.
- 3) The 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 CO₂.
- 4) For gas flow rates higher than the nominal flow, contact info@greyhoundchrom.com.

PolyGas I Purifiers



The ZPure PolyGas I Purifier removes a wide range of contaminants including O₂, H₂O, CO₂, CO, halogenated compounds, siloxanes, hydrocarbons heavier than butane, sulfur-containing molecules, ammonia and other gases. It can be used to purify inert gases, He, Ar, N₂ and H₂, 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 (heavier than butane). The ZPure PolyGas I Purifier is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

130cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 178cc H ₂ O : 2.8g HC : 3.75g Maximum ² O ₂ : 301cc H ₂ O : 4.3g HC : 12.55g	O ₂ : < 5 ppb H ₂ O: < 20 ppb HC : < 5 ppb	Nominal ³ 320cc/min	NO	68.9 bar/ 1000 psi	3.2cm x 28cm	1/8" Brass Compression	17-202285-B
						1/8" Stainless Steel Compression	17-202285-SS
						1/4" Brass Compression	17-202286-B
						1/4" Stainless Steel Compression	17-202286-SS
		Maximum ⁴ 1 SLPM		13.8 bar / 200 psi	3.2cm x 34cm (28cm w/o Fittings)	1/8" Brass Quick Connect	17-202285-B-QC
						1/8" Stainless Steel Quick Connect	17-202285-SS-QC
						1/4" Brass Quick Connect	17-202286-B-QC
						1/4" Stainless Steel Quick Connect	17-202286-SS-QC

475cc

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 649ccH H ₂ O : 10.3 g HC : 13.7 g Maximum ² O ₂ : 1100cc H ₂ O : 15.7 g HC : 45.7	O ₂ : < 5ppb H ₂ O: < 20ppb HC** : < 5ppb	Nominal ³ 1 SLPM	NO	68.9 bar/ 1000 psi	3.8cm x 57cm	1/8" Brass Compression	17-202285L-B
						1/8" Stainless Steel Compression	17-202285L-SS
						1/4" Brass Compression	17-202286L-B
						1/4" Stainless Steel Compression	17-202286L-SS
		Maximum ⁴ 3.7 SLPM		13.8 bar / 200 psi	3.8cm x 63cm (57cm w/o Fittings)	1/8" Brass Quick Connect	17-202285L-B-QC
						1/8" Stainless Steel Quick Connect	17-202285L-SS-QC
						1/4" Brass Quick Connect	17-202286L-B-QC
						1/4" Stainless Steel Quick Connect	17-202286L-SS-QC

1) Oxygen capacity is a function of flow rate - the nominal oxygen capacity is determined using the nominal flow rate. The nominal water capacity is determined for an inlet impurity level of 200 ppm H₂O. The nominal hydrocarbon capacity is determined for an inlet impurity level of 500 ppm pentane.

2) The maximum oxygen capacity is determined using 30% of the nominal flow rate. The maximum water capacity is determined for an inlet impurity level of 10000 ppm H₂O. The maximum hydrocarbon capacity is determined for an inlet impurity level of 2300 ppm pentane.

3) 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 O₂, 1 ppm H₂O, and 1 ppm HC (C₅ and heavier).

4) The maximum recommended flow rate is recommended for intermittent use only.

PolyGas I Purifiers cont.



The ZPure PolyGas I Purifier removes a wide range of contaminants including O₂, H₂O, CO₂, CO, halogenated compounds, siloxanes, hydrocarbons heavier than butane, sulfur-containing molecules, ammonia and other gases. It can be used to purify inert gases, He, Ar, N₂ and H₂, 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 (heavier than butane). The ZPure PolyGas I Purifier is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

500cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 643 cc H ₂ O*: 10.9 g HC: 14.4 g Maximum ² O ₂ : 1158 cc H ₂ O: 16.5 g HC: 48.1 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb HC** : < 5 ppb	Nominal ³ 1.2 SLPM Maximum ⁴ 3.9 SLPM	NO	13.8 bar / 200 psi	5 cm x 35 cm	1/8" Brass Compression	17-202285D-B
						1/8" Stainless Steel Compression	17-202285D-SS
						1/4" Brass Compression	17-202286D-B
						1/4" Stainless Steel Compression	17-202286D-SS
		5 cm x 41 cm (35 cm w/o Fittings)			1/8" Brass Quick Connect	17-202285D-B-QC	
					1/8" Stainless Steel Quick Connect	17-202285D-SS-QC	
					1/4" Brass Quick Connect	17-202286D-B-QC	
					1/4" Stainless Steel Quick Connect	17-202286D-SS-QC	

750cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ O ₂ : 11024 cc H ₂ O: 16.3 g HC: 21.6 g Maximum ² O ₂ : 1737cc H ₂ O: 24.8 g HC: 72.1 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb HC : < 5 ppb	Nominal ³ 1.85 SLPM Maximum ⁴ 5.77 SLPM	NO	13.8 bar / 200 psi	5 cm x 50 cm	1/8" Brass Compression	7-202285XL-B
						1/8" Stainless Steel Compression	7-202285XL-SS
						1/4" Brass Compression	7-202286XL-B
						1/4" Stainless Steel Compression	7-202286XL-SS
		5 cm x 56 cm (50 cm w/o Fittings)			1/8" Brass Quick Connect	7-202285XL-B-QC	
					1/8" Stainless Steel Quick Connect	7-202285XL-SS-QC	
					1/4" Brass Quick Connect	7-202286XL-B-QC	
					1/4" Stainless Steel Quick Connect	7-202286XL-SS-QC	

- Oxygen capacity is a function of flow rate - the nominal oxygen capacity is determined using the nominal flow rate. The nominal water capacity is determined for an inlet impurity level of 200 ppm H₂O. The nominal hydrocarbon capacity is determined for an inlet impurity level of 500 ppm pentane.
- The maximum oxygen capacity is determined using 30% of the nominal flow rate. The maximum water capacity is determined for an inlet impurity level of 10000 ppm H₂O. The maximum hydrocarbon capacity is determined for an inlet impurity level of 2300 ppm pentane.
- 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 O₂, 1 ppm H₂O, and 1 ppm HC (C₅ and heavier).
- The maximum recommended flow rate is recommended for intermittent use only.

PolyGas II Purifier



The ZPure PolyGas II Purifier removes water, CO₂, halogenated compounds, siloxanes, hydrocarbons heavier than butane, sulfur-containing molecules, ammonia and other gases. It can be used to purify inert gases, He, Ar, N₂, H₂, and clean dry air (CDA), to low-ppb levels. A common application is for conditioning the hydrogen and zero air lines used with GC flame ionization detectors.

The ZPure PolyGas II Purifier is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

130cc										
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number			
Nominal ¹ H ₂ O : 6.5 g HC : 5.8 g Maximum ² H ₂ O: 9.45 g HC: 17.86 g	H ₂ O: < 20ppb HC: < 5ppb	Nominal ³ 1 SLPM	NO	68.9 bar/ 1000 psi	3.2cm x 28cm	1/8" Brass Compression	17-202287-B			
						1/8" Stainless Steel Compression	17-202287-SS			
						1/4" Brass Compression	17-202288-B			
						1/4" Stainless Steel Compression	17-202288-SS			
		Maximum ² H ₂ O: 9.45 g HC: 17.86 g		H ₂ O: < 20ppb HC: < 5ppb	Maximum ⁴ 5 SLPM	NO	13.8 bar / 200 psi	3.2cm x 34cm (28cm w/o Fittings)	1/8" Brass Quick Connect	17-202287-B-QC
									1/8" Stainless Steel Quick Connect	17-202287-SS-QC
									1/4" Brass Quick Connect	17-202288-B-QC
									1/4" Stainless Steel Quick Connect	17-202288-SS-QC

475cc										
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Max Pressure	Approximate Dimensions	Fitting Type	Part Number			
Nominal ¹ H ₂ O: 22.4 g HC: 21.1 g Maximum ² H ₂ O: 34.5 g HC: 65.3 g	H ₂ O: < 20ppb HC: < 5ppb	Nominal ³ 3.7 SLPM	NO	68.9 bar/ 1000 psi	3.8cm x 57cm	1/8" Brass Compression	17-202287L-B			
						1/8" Stainless Steel Compression	17-202287L-SS			
						1/4" Brass Compression	17-202288L-B			
						1/4" Stainless Steel Compression	17-202288L-SS			
		Maximum ² H ₂ O: 34.5 g HC: 65.3 g		H ₂ O: < 20ppb HC: < 5ppb	Maximum ⁴ 8 SLPM	NO	13.8 bar / 200 psi	3.8cm x 63cm (57cm w/o Fittings)	1/8" Brass Quick Connect	17-202287L-B-QC
									1/8" Stainless Steel Quick Connect	17-202287L-SS-QC
									1/4" Brass Quick Connect	17-202288L-B-QC
									1/4" Stainless Steel Quick Connect	17-202288L-SS-QC

- 1) The nominal water capacity is determined for an inlet impurity level of 200 ppm H₂O. The nominal hydrocarbon capacity is determined for an inlet impurity level of 500 ppm pentane.
- 2) The maximum water capacity is determined for an inlet impurity level of 10000 ppm H₂O. The maximum hydrocarbon capacity is determined for an inlet impurity level of 2300 ppm pentane.
- 3) 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 H₂O and 1 ppm HC (C5 and heavier).
- 4) The maximum recommended flow rate is recommended for intermittent use only

PolyGas II Purifiers - cont.



The ZPure PolyGas II Purifier removes water, CO₂, halogenated compounds, siloxanes, hydrocarbons heavier than butane, 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 with GC flame ionization detectors.

The ZPure PolyGas II Purifier is available with standard compression fittings and quick connect fittings offered in 1/4" and 1/8" brass and stainless steel.

500cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ H ₂ O: 23.6g HC: 22.3g Maximum ² H ₂ O: 36.3 g HC: 68.7 g	H ₂ O: < 20ppb HC: < 5ppb	Nominal ³ 3.8 SLPM	NO	13.8 bar / 200 psi	5cm x 35cm	1/8" Brass Compression	17-202287D-B
						1/8" Stainless Steel Compression	17-202287D-SS
						1/4" Brass Compression	17-202288D-B
						1/4" Stainless Steel Compression	17-202288D-SS
		5cm x 41cm (35cm w/o Fittings)			1/8" Brass Quick Connect	17-202287D-B-QC	
					1/8" Stainless Steel Quick Connect	17-202287D-SS-QC	
					1/4" Brass Quick Connect	17-202288D-B-QC	
					1/4" Stainless Steel Quick Connect	17-202288D-SS-QC	
Maximum ⁴ 19 SLPM							

750cc							
Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal ¹ H ₂ O: 35.3g HC: 33.5g Maximum ² H ₂ O: 54.55 g HC: 103 g	H ₂ O: < 20ppb HC: < 5ppb	Nominal ³ 5.8 SLPM	NO	13.8 bar / 200 psi	5cm x 50cm	1/8" Brass Compression	17-202287XL-B
						1/8" Stainless Steel Compression	17-202287XL-SS
						1/4" Brass Compression	17-202288XL-B
						1/4" Stainless Steel Compression	17-202288XL-SS
		5cm x 56cm (50 cm w/o Fittings)			1/8" Brass Quick Connect	17-202287XL-B-QC	
					1/8" Stainless Steel Quick Connect	17-202287XL-SS-QC	
					1/4" Brass Quick Connect	17-202288XL-B-QC	
					1/4" Stainless Steel Quick Connect	17-202288XL-SS-QC	
Maximum ⁴ 9 SLPM							

- 1) The nominal water capacity is determined for an inlet impurity level of 200 ppm H₂O. The nominal hydrocarbon capacity is determined for an inlet impurity level of 500 ppm pentane.
- 2) The maximum water capacity is determined for an inlet impurity level of 10000 ppm H₂O. The maximum hydrocarbon capacity is determined for an inlet impurity level of 2300 ppm pentane.
- 3) 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 H₂O and 1 ppm HC (C₅ and heavier).
- 4) The maximum recommended flow rate is recommended for intermittent use only

ZPure LS H2O Filters



The H2O filter for use with ASTM D6550 and ASTM D5186 using SFC

The ZPure H2O Filter removes moisture from inert gases, He, Ar, N2, H2, methane and clean dry air (CDA) to low ppb levels, with very high capacity. It is recommended for any application that requires ultra-dry gas, and is available in 130cc and 475cc stainless steel cylinders with standard 1/4" and 1/8" brass and stainless steel compression fittings.

ASTM D6550 and ASTM D5186 using Supercritical Fluid Chromatography has been approved as an alternative to FIA ASTM D1319 standard test method for Hydrocarbon Types in Liquid Petroleum Products. This filter was manufactured with molecular sieve 3A by customer request for use with a Supercritical Fluid Chromatograph.

Moisture Removal for Specialized Applications

- CO2 purification for SFC** - In the petroleum industry, both the Environmental Protection Agency (EPA) and California Air Resources Board (CARB) have approved ASTM D6550 and ASTM D5186 for final product release of gasoline and diesel fuels. In this type of application, the reduced heating of 3A is expected to reduce desorption of already bound moisture, protecting sensitive and expensive columns.
- Mixed source gas** - Purifiers should not be used to remove water from individual gas samples intended for analysis; some proportionation may occur. Gas purifiers typically use either molecular sieve 5A or 13X adsorbents to remove water from gas streams. These are beneficial for carrier gases used with GC or GC/MS, because in addition to water they also remove many other common contaminants. ("5" and "13" refer to the adsorbent's pore diameter in angstroms.) In some applications, however, 3A molecular sieve with smaller pore size may be preferred. It removes water yet excludes almost all larger molecules including CO2, the carrier used in Supercritical Fluid Chromatography (SFC). Since CO2 is excluded there is no significant temperature rise on installation, due to heat of adsorption, which may occur with 5A or 13X purifiers.

Filter Range

Filter	Part Number
ZPure LS H2O Filter, 130cc, 1/8" S/S Compression Fittings, with Molecular Sieve 3A	17-203011-B
ZPure LS H2O Filter, 475cc, 1/8" S/S Compression Fittings, with Molecular Sieve 3A	17-203010L-SS
ZPure LS H2O Filter, 475cc, 1/4" Brass Compression Fittings, with Molecular Sieve 3A	17-203011L-B
ZPure LS H2O Filter, 475cc, 1/4" S/S Compression Fittings, with Molecular Sieve 3A	17-203011L-SS

Specifications

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Part Number
Nominal: H2O: 12g Maximum: H2O: 22g	< 20 ppb	Nominal: 1 SLPM Maximum: 10 SLPM	NO	68.9 bar/1000 psi	3.2 cm x 28 cm	17-203011-B
Nominal: H2O 45 g Maximum: 79 g		Nominal: 3.7 SLPM Maximum: 36 SLPM			3.8 cm x 57 cm	17-203010L-SS
						17-203011L-B
						17-203011L-SS

ZPure Infinity Hydrogen Gas Purifier

The Infinity Hydrogen Gas Purifier is a self regenerating purifier that removes oxygen from hydrogen at ambient temperature. The reaction consumes the oxygen and creates water vapor. When paired with an additional moisture filter, it is the perfect solution for hydrogen generators.

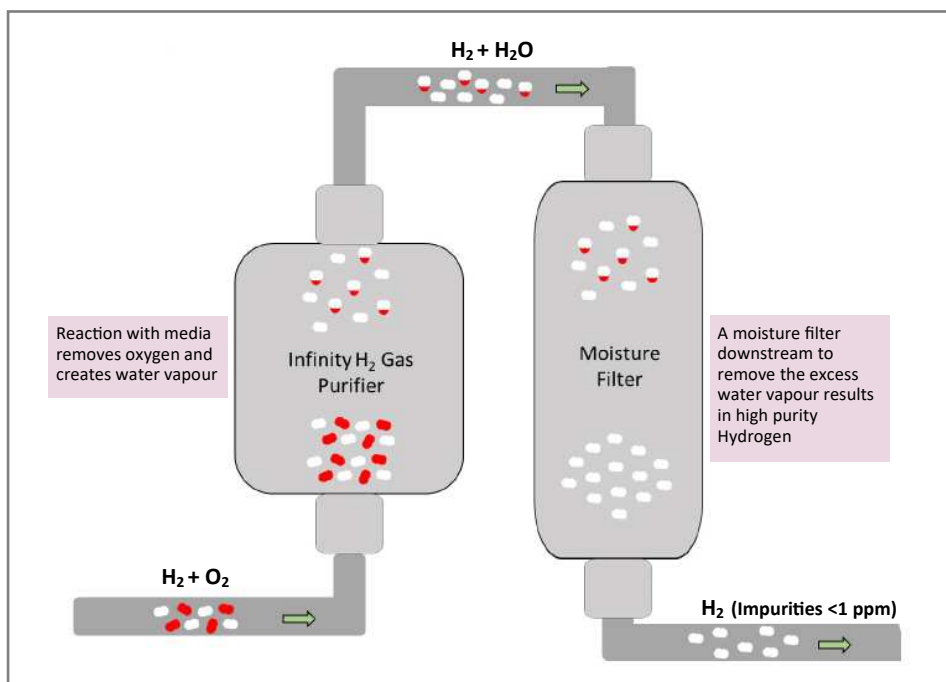
This catalytic purifier has the potential to last forever, however the media can be easily contaminated by oil, organic solvents, heavy metals, sulfur compounds etc.

Dimensions: 1.25" x 3.5" (3.2 cm x 9 cm)

Maximum Pressure: 68.9 bar/1000 psi

Maximum Flow Rate: 1 SLPM

Efficiency: Impurities <1ppm



Part Number	Filter
17-202381-SS	Infinity H2 Purifier, 1/4" S/S Compression Fittings

ZPure M Filters

ZPure Gas Filters represent the highest quality of purifiers available.

The ZPure M Filters are **3800cc**

canisters that have the benefits of higher flow rates, larger capacities, and are manufacturer refillable. Please contact Greyhound for instructions on returning ZPure M canisters for refilling. (Refilling service not available for ZPure M CO² Filters).

The canister is made from 316 stainless steel and has stainless steel fitting options in 1/2" VCR fittings, 1/4" compression, and 1/4" quick connect fittings.

ZPure M Filters are available in contaminant specific filters for hydrocarbons, moisture, and carbon dioxide, as well as several that remove combinations of these impurities including an oxygen/moisture combination and the PolyGas II Purifier.



ZPure M HC

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal HC : 327 g Maximum 1060 g	< 5 ppb	Nominal 30 SLPM Maximum 200 SLPM	NO	150 psi for Air, N2 or Inert Gases 80 psi for H2 or O2	10cm x 64cm	1/2" Stainless Steel VCR Fitting (male inlet, female outlet)	17-202232M-V
						1/4" Stainless Steel Compression	17-202233M-SS
						1/4" Stainless Steel Quick Connect	17-202233M-SS-QC

ZPure M H2O

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal H2O** : 389 g Maximum 640 g	< 20 ppb	Nominal 30 SLPM Maximum 200 SLPM	NO	150 psi for Air, N2 or Inert Gases 80 psi for H2 or O2	10cm x 64cm	1/2" Stainless Steel VCR Fitting (male inlet, female outlet)	17-202230M-V
						1/4" Stainless Steel Compression	17-202231M-SS
						1/4" Stainless Steel Quick Connect	17-202231M-SS-QC

ZPure M CO2

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal CO2*** 300 g Maximum 564 g	< 5 ppb	Nominal <20 SLPM Maximum Enquire	HAZARDOUS UN1823	150 psi for Air, N2 or Inert Gases 80 psi for H2 or O2	10cm x 64cm	1/2" Stainless Steel VCR Fitting (male inlet, female outlet)	17-202212M-V

ZPure M PolyGas II

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal H2O** :180 g HC*:159 g Maximum H2O** : 281 g HC*:530 g	H2O:< 20 ppb HC*: <5 ppb	Nominal 30 SLPM Maximum 100 SLPM	NO	150 psi for Air, N2 or Inert Gases 80 psi for H2 or O2	10cm x 64cm	1/2" Stainless Steel VCR Fitting (male inlet, female outlet)	17-202287M-V
						1/4" Stainless Steel Compression	17-202288M-SS
						1/4" Stainless Steel Quick Connect	17-202288M-SS-QC

ZPure M O2 / H2O

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
Nominal O2** 8100 cc H2O** :129 g Maximum O2: 13658 cc H2O** :196 g	O2: <5ppb H2O:< 20 ppb	Nominal 14 SLPM Maximum 40 SLPM†	NO	150 psi for N2 or Inert Gases 80 psi for H2	10cm x 64cm	1/2" Stainless Steel VCR Fitting (male inlet, female outlet)	17-202295M-V
						1/4" Stainless Steel Compression	17-202296M-SS
						1/4" Stainless Steel Quick Connect	17-202296M-SS-QC

* Hydrocarbons (C5 and heavier); capacity based on 0.05 % pentane inlet concentration.
*** Capacity based on an inlet CO2 concentration of 400 ppm.

** Water capacity based on an inlet moisture concentration of 200 ppm
† For high flow applications, contact info@greyhoundchrom.com

General Purpose Gas Purifiers and Filters

General Purpose Purifiers



These standard in-line purifiers are sturdy metal cylinders, recognized for their high pressure ratings, large capacities, and exceptional efficiency. Available models include the Model 1000 for oxygen removal, the Model 500 for moisture removal, the Model 300 for hydrocarbon removal, and the CO2 Filter that removes carbon dioxide from the gas stream.

Model 1000 (Oxygen Removal)

Capacity	Efficiency	Flow Rate	Hazardous Shipping	Maximum Pressure	Approximate Dimensions	Fitting Type	Part Number
O2: 2500cc	< 10 ppb	Nominal 2 SLPM Maximum‡ 10 SLPM	HAZARDOUS UN3190	68.9 bar / 1000 psi	5 cm x 37 cm	1/8" Brass Compression	17-202200-B
						1/8" Stainless Steel Compression	17-202200-SS
						1/4" Brass Compression	17-202202-B
						1/4" Stainless Steel Compression	17-202202-SS

Model 500 (Moisture Removal)

H2O*: 47g	< 20 ppb	Nominal 2 SLPM Maximum‡ 10 SLPM	NO	68.9 bar / 1000 psi	5 cm x 37 cm	1/8" Brass Compression	17-202270-B
						1/8" Stainless Steel Compression	17-202270-SS
						1/4" Brass Compression	17-202272-B
						1/4" Stainless Steel Compression	17-202272-SS

Model 300 (Hydrocarbon Removal)

HC **: 45 g	< 5 ppb	Nominal 2 SLPM Maximum‡ 10 SLPM	NO	68.9 bar / 1000 psi	5 cm x 37 cm	1/8" Brass Compression	17-202330-B
						1/8" Stainless Steel Compression	17-202330-SS
						1/4" Brass Compression	17-202332-B
						1/4" Stainless Steel Compression	17-202332-SS

CO2 Filter

CO2: 51† - 100# g	< 5 ppb	Nominal 2 SLPM Maximum‡ 10 SLPM	HAZARDOUS UN1823	68.9 bar / 1000 psi	5 cm x 37 cm	1/8" Brass Compression	17-202350-B
						1/8" Stainless Steel Compression	17-202350-SS
						1/4" Brass Compression	17-202352-B
						1/4" Stainless Steel Compression	17-202352-SS

* Water capacity based on an inlet moisture concentration of 200 ppm

** Hydrocarbons (C5 and heavier); capacity based on 0.05 % pentane inlet concentration

† Capacity based on an inlet CO2 concentration of 400 ppm

‡ For high flow applications, contact info@greyhoundchrom.com

Higher CO2 capacity can be achieved for higher inlet concentrations of CO2

Mounting Kits for Gas Purifiers

Mounting kits to secure glass or metal filters to bench or wall

Part Number	Description
17-205705	Mounting Kit for ZPure Glass Purifiers - 3.8cm dia.
17-205706	Mounting Kit for ZPure Metal Cylinder Purifiers - 5cm dia.



Advanced Filter System

The high-capacity gas purifying system that removes contaminants from inert gases and hydrogen. The AFS Purifiers can be expected to supply multiple GC Installations for an extended period of time depending on the laboratory environment.

The two part system includes a small stainless steel manifold and a high capacity purifier cartridge. The manifold mounts to a laboratory wall or bench with brackets included in the installation kit and connects to the gas lines with stainless steel compression fittings.

The AFS 1 Purifier Cartridge removes oxygen, moisture and hydrocarbons (greater than C4) from inert gases and hydrogen. It contains a high sensitivity oxygen and moisture indicator. When the cartridge is depleted, the oxygen indicator changes from **GREEN to GREY** and the moisture indicator changes from **BLUE to BROWN**.

PolyGas AFS Purifier I Cartridge is a high capacity **Non-Hazardous** purifying system that removes oxygen, moisture and hydrocarbons (greater than C4) from inert gases and hydrogen. It contains a high sensitivity oxygen and moisture indicator. When the cartridge is depleted, the oxygen indicator changes from **GREEN to GREY** and the moisture indicator changes from **BLUE to BROWN**.

The AFS II Purifier Cartridge removes moisture and hydrocarbons (greater than C4) from air, inert gases and hydrogen. It contains a high sensitivity moisture indicator. When the cartridge is depleted, the moisture indicator changes from **BLUE to BROWN**.

The AFS III Purifier Cartridge removes moisture from inert gases and hydrogen. It contains a high sensitivity moisture indicator. When the cartridge is depleted, the moisture indicator changes from **BLUE to BROWN**.



AFS Complete Kit with Filter, Manifold Unit and Mounting Brackets



AFS Manifold Unit

Advanced Filter System (Product Details)

Part Number	Product
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AFS I

17-202900	AFS Gas Purifier I, O2/H2O/HC, 1/8" S/S Compression Fittings - Complete Kit (Not for O2 or Air use) *
17-202902	AFS Gas Purifier I, O2/H2O/HC, 1/4" S/S Compression Fittings - Complete Kit (Not for O2 or Air use) *
17-202910	AFS Gas Purifier I, O2/H2O/HC, Replacement Cartridge (Not for O2 or Air use) *
17-202920	AFS Gas Purifier I, O2/H2O/HC, Reconditioned Cartridge *

PolyGas AFS I (Non-Hazardous)

17-202912	AFS Gas Purifier I, O2/H2O/HC, Non-Hazardous, 1/8" S/S Compression Fittings - Complete Kit (Not for O2 or Air use)
17-202913	AFS Gas Purifier I, O2/H2O/HC, Non-Hazardous, 1/4" S/S Compression Fittings - Complete Kit (Not for O2 or Air use)
17-202914	AFS Gas Purifier I, O2/H2O/HC, Non-Hazardous, Replacement Cartridge (Not for O2 or Air use)
17-202915	AFS Gas Purifier I, O2/H2O/HC, Non-Hazardous, Reconditioned Cartridge

AFS II

17-202903	AFS Gas Purifier II, HC/H2O, 1/8" S/S Compression Fittings - Complete Kit
17-202904	AFS Gas Purifier II, HC/H2O, 1/4" S/S Compression Fittings - Complete Kit
17-202950	AFS Gas Purifier II, HC/H2O, Replacement Cartridge
17-202930	AFS Gas Purifier II, HC/H2O, Reconditioned Cartridge

AFS III

17-202905	AFS Gas Purifier III, H2O, 1/8" S/S Compression Fittings - Complete Kit
17-202906	AFS Gas Purifier III, H2O, 1/4" S/S Compression Fittings - Complete Kit
17-202955	AFS Gas Purifier III, H2O, Replacement Cartridge
17-202935	AFS Gas Purifier III, H2O, Reconditioned Cartridge

Manifold (Only)

17-202900MN	AFS Gas Purifier Manifold, 1/8" S/S Compression Fittings
17-202902MN	AFS Gas Purifier Manifold, 1/8" S/S Compression Fittings

* Requires Hazardous Goods Exemption Documentation

Advanced Filter System (Technical Specifications)

Capacity	Efficiency	Nominal Flow Rate	Maximum Flow Rate	Gas Removal	Hazardous Shipping	Maximum Pressure	Gases To Be Purified
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AFS I Cartridge

O2: 850cc, H2O: 12g, HC: 8g	O2: <5ppb, H2O: <20ppb, HC: <5ppb	0.5 SLPM	2 SLPM	H2O, HC, O2	SMALL QUANTITY EXCEPTION	200 psi	Ar, He, H2, N2
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PolyGas AFS I Cartridge (Non-hazardous)

O2: 556cc, H2O: 8g, HC: 23g	O2: <5ppb, H2O: <20ppb, HC: <5ppb	0.5 SLPM	2 SLPM	O2, H2O, HC	NO	200 psi	Ar, He, H2, N2
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AFS II Cartridge

H2O: 8.8g, HC: 13g	H2O: <20ppb, HC: <5ppb	0.5 SLPM	2 SLPM	H2O, HC	NO	200 psi	Ar, He, H2, N2
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AFS III Cartridge

H2O: 22g	H2O: <20ppb	0.5 SLPM	2 SLPM	H2O	NO	200 psi	Ar, He, H2, N2
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ZPure™

Gas Purifiers and Filters



Purity by Design



YOUR GLOBAL SCIENCE PARTNER

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