

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

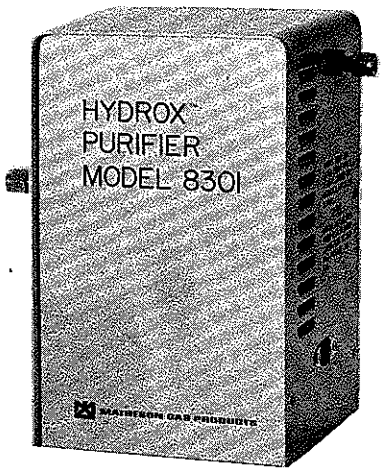
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

MATHESON HYDROX™ PURIFIER MODEL 8301



The Matheson 8301 HYDROX Purifier is designed around a newly developed alloy of Zirconium, Titanium and Nickel. This new alloy permits a simplicity of design and a flexibility of applications not previously available from titanium gettering furnaces. It is capable of removing oxygen and water from argon, helium, krypton, [redacted], neon xenon and mixtures of these such as [redacted]. It will also remove hydrogen and some nitrogen, carbon monoxide and carbon dioxide from these gases.

How long will it last?

There is no simple way to determine when the gettering alloy has been consumed. Instruments that are capable of measuring such low concentrations of oxygen and water are expensive and generally not available at application sites where HYDROX would normally be used. Testing has provided some data. Actual life time is dependent upon the flow rate and impurity level of your gas stream. For example the HYDROX Purifier is capable of removing 100 ppm O_2 and 100 ppm H_2O to a level of 0.1 ppm of each. It has a total theoretical cleanup capacity of 26 grams of oxygen and/or water. It will easily purify 50 to 70-250 ft.^{3} cylinders containing a nominal impurity level of 10 ppm oxygen and water.

TYPICAL APPLICATIONS

- Gas chromatography
- Welding
- Glove box systems
- High purity sputtering
- Crystal growing
- Materials research
- Carrier gases for vapor deposition

DESIGN FEATURES

- All 316 stainless steel heliarc welded construction
- Simple trouble-free operation (no temperature control required)
- Handles very high impurity levels (spikes) without overload

SPECIFICATIONS

Flow rate:	0.01 to 5 liters/min.
Maximum Operating Pressure:	300 p.s.i.g. (2 070 kPa)
Operating Temperature:	932°F (500°C)
Exit Gas Temperature:	From room temperature to 55°C depending on flowrate
Power Requirement:	115 V, 1 amp
Dimensions:	6"w x 10"h x 6"d (15 x 26 x 15 cm)
Weight:	6 lbs. (2.47 kg.)
Inlet and Outlet Connections:	¼" tubing
Warm up time:	30 to 45 minutes

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP