



Ultra High Purity Gas Delivery Systems

For Rigorous, Specialized Applications
and Advanced Production Environments

Your ultra high purity gas delivery systems should power your process innovation and competitive edge. **Don't settle for less.**

Production-Ready | SEMI S2 Compliant | UL Labeled | Proven Performance



For over 35 years, SEMI-GAS® has been the semiconductor industry's go-to source for premier, production-ready, ultra high purity gas delivery solutions. Today, Tier 1 leaders and high-tech innovators all over the world call SEMI-GAS® their partner of choice.

And we always deliver.

SEMI-GAS® UHP systems and equipment are globally renowned for quality, and proven in their capability to meet even the most rigorous demands for precision and purity.

Born and bred in the fast-paced semiconductor industry, we understand that continual innovation is key to differentiation. Over 35 years, we've perfected the engineering of our gas delivery systems to uphold excellence in your processes and output. **Use our gas delivery innovation to power yours.**

Explore our SEMI-GAS® Solutions for Ultra High Purity Applications:

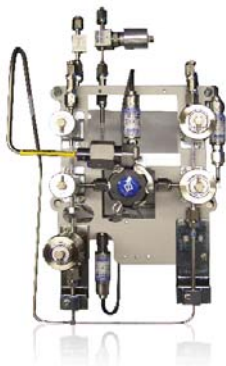


Centurion™ GAS CABINETS

Made for the most precise UHP gas delivery in the most advanced production environments.

PRODUCTS INCLUDE:

- ◆ One, Two, and Three Cylinder Semi-Automatic Gas Cabinets
- ◆ Two and Three Cylinder Fully Automatic Gas Cabinets
- ◆ 1CE x 1CE and 1CE x 1CE x 1CE Fully Automatic Gas Cabinets
- ◆ Gas Cylinder Storage Cabinets



Decaturion™ WALL MOUNT SYSTEMS

Proven performance in a modular design to meet an array of UHP application demands.

PRODUCTS INCLUDE:

- ◆ AT-Plus Wall Mount Systems
- ◆ Two Valve and Three Valve Wall Mount Systems



Nanoturion™ DISTRIBUTION SYSTEMS

Premier solutions for gas distribution from a single source gas supply to multiple points of use.

PRODUCTS INCLUDE:

- ◇ Manual Distribution Systems
- ◇ Semi-Automatic Distribution Systems
- ◇ Fully Automatic Distribution Systems



Megaturion™ BULK SPECIALTY GAS SYSTEMS

The standard for safe distribution and delivery of bulk hazardous process gases.

PRODUCTS INCLUDE:

- ◇ Bulk Distribution Systems
- ◇ Bulk Source Systems
- ◇ Bulk Multicylinder Systems



Xturion™ CUSTOM GAS EQUIPMENT

Custom-engineered systems for your specialized applications and UHP requirements.

In order to satisfy the highly specialized demands of our customers, we bring together our robust SEMI-GAS® offerings, industry-leading services and vertical expertise to custom-engineer application specific solutions.



GigaGuard™ CONTROLLERS

State-of-the-art, intuitive controllers to ensure safe and continuous gas delivery.

CONTROLLERS INCLUDE:

- ◇ Programmable Logic Controllers (PLC)
- ◇ Emergency Shutdown Systems (ESS)
- ◇ Gas Safety Monitors (GSM)
- ◇ Pressure Status Indicators (PSI)
- ◇ Compact Data Monitors (CDM)

Why Choose SEMI-GAS®?

When your process requirements are highly stringent, your gas delivery system can make or break your success. Through our SEMI-GAS® systems, we ensure that your UHP gas is empowered to perform, and that your business-critical systems will never be an afterthought.



Ideal for Advanced Production Environments

All SEMI-GAS® equipment is SEMI S2 compliant, upholding the stringent requirements of this cornerstone safety guideline for semiconductor fabs – which also makes them ideal for specialized applications in innovative sectors like electronics and aerospace & defense, where demands for precision and purity are highest.



Engineered to Your Standard of Excellence

SEMI-GAS® systems undergo sample validation testing to ensure they uphold purity standards of less than 100ppb for Moisture, Oxygen and Total Hydrocarbons. These products can also be custom-engineered to your distinct requirements as needed.



Equipped with State-of-Art Control Technology

SEMI-GAS® products feature our premier line of UL-labeled GigaGuard™ controllers, which include LED displays and touchscreen interfaces for easy and intuitive system monitoring and management. These controllers offer remote monitoring capabilities and compatibility for Ethernet communications.

Brought to You By Applied Energy Systems

Singularly focused on excellence in gas delivery, customers turn to Applied Energy Systems (AES) for high-value systems engineering – including design, manufacturing, testing and field services. Our excellence permeates our products, services, solutions and every industry we touch, to power process innovation for hundreds of organizations worldwide.

Through our SEMI-GAS® products, AES is raising the standards of precision, purity, and performance in ultra high purity gas delivery and distribution.

To learn more, visit www.appliedenergysystems.com today.



180 Quaker Lane, Malvern, PA 19355
PHONE: 610.647.8744 FAX: 610.640.4548
www.appliedenergysystems.com

ORDERING INFORMATION
Contact your SEMI-GAS® sales rep or visit www.semi-gas.com
SEMI-020916-V1