SEMI-GAS® supplies SEMI S2 certified, production-ready ultra high purity gas source systems, distribution systems and control technology to leaders in the Semiconductor industry and related high-tech fields. Built to address the most rigorous precision and purity demands of these specialized applications, SEMI-GAS® solutions are globally renowned for their premier levels of safety, quality, and performance.

**DESIGN STANDARDS**
- Conforms to SEMI S2 Standards
- UL Labeled
- Conforms to Uniform Building and Fire Codes
- Upholds Sample Validation Testing Standards
- Helium Leak Tested to $1 \times 10^{-9}$ atm-cm$^3$/sec
- Equipped with GigaGuard™ PLC Controller

**FEATURES**
- Safely Dispenses High Flow Hazardous Process Gases
- System Design Accommodates 4 to 18 Cylinders
- Performs Purging Automatically
- Performs Cylinder Switchover Automatically
- Includes Ergonomically Positioned Color Touch Screen
- Intuitive Operating Interface and Control
- Optional Manifold and Cylinder Heaters
- Continuously Monitors System Conditions for Alarms
- Remote Outputs for System Status and/or Shutdown
- Optional Exterior Purge Manifold System (pictured)
- CE Certified Controls

**ENGINEERING DATA**
- Dimensions: Varies by Customer Specifications
- Window Open Duct Flow: Varies by System Specifications
- Voltage: 110 to 240 VAC, 1 Phase
- Frequency: 50 to 60 Hz

**MATERIALS OF CONSTRUCTION**
- Welded 11 Ga Steel Enclosure
- Self-Closing and Self-Latching Doors
- Self-Closing and Self-Latching Windows
- Heavy Cast Aluminum Cylinder Brackets
- Polycarbonate Face Shields
- UL Approved Fire Sprinklers
- 1/4” Thick Safety Glass Windows
SAFETY FEATURES

- **Coaxial Tubing** for toxic and hazardous gas applications (optional)
- **Door Switch Monitor** for applications that require extra security and/or limited access (optional)
- **UV/IR Detector** for pyrophoric gas applications including silane and silane mixtures greater than 1.37% (required for silane)
- **Rate of Rise Heat Detector** for flammable gas applications (optional)
- **Hazardous Gas Detector** for all hazardous, toxic, and/or flammable gas applications (required for silane, consult local codes for all other gases)
- **Purge Gas Bleed Valve** for manifolds and piping systems with large internal volumes or line lengths (optional)
- **Controller Z-Purge Kit** for systems installed in Class 1 Division 2 hazardous locations, as well as applications for silane and silane mixtures greater than 1.37% (required for silane)
- **Dual Cylinder Restraints** for applications that require additional cylinder security or are located in seismic zones (required for specific seismic areas)
- **Auto-Guard™ Cylinder Connection Cover** for preventing accidental disconnection of a hazardous gas cylinder from a gas source manifold (optional)
- **Shutboy Software Upgrade** to accommodate Shutboy valve shutters for automatically closing the gas cylinder valve during emergency situations (optional)

ORDERING INFORMATION

Example: Fully Automatic 12-Cylinder MegaCyl™ Bulk Specialty Gas System with Purge

Product: M = Megaturion™ Bulk Specialty Gas System
Configuration: T = Tonner Cylinders, M = Multicylinder MegaCyl™
Control: A = Fully Automatic
Process Manifold: 5 = 5-Valve (for all gas types)
Operation: X = Autoswitchover
Purge: P = Purge, O = No Purge
Multicylinder: 3 = 3X3, 6 Cylinder System, 6 = 6X6, 12 Cylinder System, 9 = 9X9, 18 Cylinder System, C = Custom Configuration

*All Megaturion™ Bulk Specialty Gas Systems can be customized to meet unique specifications. Contact your SEMI-GAS® sales rep for details.*

BY APPLIED ENERGY SYSTEMS

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