



Megaturion™ MM-A

MegaCyl™ Bulk Specialty Gas System



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 1×10^{-9} atm-cm³/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



ORDERING INFORMATION

Contact your SEMI-GAS® sales rep or visit www.semi-gas.com

BY APPLIED ENERGY SYSTEMS

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Malvern, PA 19355

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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 (Only for MegaCyl™ Configurations)

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.