**Centurion™ C3-A**
Three Cylinder Fully Automatic Gas Cabinet

**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 Hazardous Process Gases
- Performs Purging Automatically
- Performs Cylinder Switchover Automatically
- Includes Ergonomically Positioned Color Touch Screen
- Intuitive Operating Interface and Control
- Continuously Monitors System Conditions for Alarms
- Maintains Detailed Alarm Logs
- Multiple Communications Protocols Available

**ENGINEERING DATA**
- Dimensions: 86”T X 40”W X 23”D
- Exhaust Duct: 8” Diameter
- Window Open Duct Flow: 550 SCFM
- 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 Door
- Self-Closing and Self-Latching Window
- Heavy Cast Aluminum Cylinder Brackets
- Polycarbonate Face Shield
- Durable, Corrosion Proof, Non-Skid Floor Mat
- UL Approved Fire Sprinkler
- 1/4” Thick Safety Glass Window

**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.
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: Three Cylinder Fully Automatic Autoswitchover Gas Cabinet with Purge

![Centurion™ C3-A Diagram]

Product Configuration

**Product**

C = Centurion™ Gas Cabinet

**Configuration**

1 = 1 Cylinder  
2 = 2 Cylinder  
3 = 3 Cylinder

**Control**

M = Manual  
S = Semi Automatic  
A = Fully Automatic

**Process Manifold**

2 = 2-Valve (for inert gases)  
3 = 3-Valve (for inert gases)  
5 = 5-Valve (for toxic, flammable, and reactive gases)

**Operation**

X = Autoswitchover  
N = Independent Processes

**Purge**

P = Purge  
O = No Purge

**Option**

I = Individual Process Cabinets  
S = System Upgrades for Silane

*All Centurion™ Gas Cabinets can be customized to meet unique specifications. Contact your SEMI-GAS® sales rep for details.*