Centurion™ C3-A
Three Cylinder Fully Automatic Gas Cabinet with 1 x 1 x 1 Enclosure

**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 1x10^-9 atm·cm³/sec
- Equipped with GigaGuard™ PLC Controller

**FEATURES**
- Safely Dispenses Hazardous Process Gases
- Separate Enclosures for Individual Cylinders
- 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
- Optional Z-Purge
- Optional 1CE200 Enclosures Specifically Designed for Silane Delivery

**ENGINEERING DATA**
- Dimensions: 86" T X 45.75" W X 23" D
- Exhaust Duct- 1CE200: 8" Diameter
- Exhaust Duct- 1CE: 6" Diameter
- Window Open Duct Flow- 1CE200: 850 SCFM
- Window Open Duct Flow- 1CE: 350 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

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

**BY APPLIED ENERGY SYSTEMS**
180 Quaker Lane
Malvern, PA 19355

Phone: 610.647.8744
Fax: 610.640.4548
Email: sales@semi-gas.com

CENTURION-C3-A-1x1x1-082016-V1
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 and Individual Process Cabinets

```
C  3  A  5  X  P  I  S
Product  Configuration  Control  Process Manifold  Operation  Purge  Option  Option
```

**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.*