

## RECONDITIONED-CERTIFIED-WARRANTIED GAS CABINETS

CSI's meticulous reconditioning process results in exceptional quality turn-key systems guaranteed to meet or exceed original specifications at a significant savings over OEM prices. A system that has passed CSI's reconditioning checklist has met the highest standards of purity & quality in the industry. Every gas cabinet is backed with our industry leading one year warranty.

All controllers, panels and cabinets are disassembled and thoroughly tested before being CSI Certified. Full analytical testing is available. Complete customization is offered after a consultation of your exact gas needs. On-site commissioning & training, spare parts, and ongoing support is available.



### Standard Configurations:

Fully Manual - Common Choice for Inert Systems

Semi Automatic - For use with Flammable, Lite Toxic and Oxidizers

Fully Automatic - For use with Corrosives, Toxics and Pyrophorics

Cabinets available in Process/Purge, Dual Process Out and Auto Crossover Designs

### Cabinet Dimensions & Features:

1 Cylinder Cabinet 18-1/8" Wide x 19-17/32" Deep x 85" High with 6" Exhaust

2 Cylinder Cabinet 24-1/8" Wide x 19-17/32" Deep x 85" High with 6" Exhaust

3 Cylinder Cabinet 38-1/8" Wide x 19-17/32" Deep x 85" High with 6" Exhaust

Exhaust Monitoring

Temperature Monitoring

Cabinets are 12 ga Painted Steel, Seam Welded, with a Self Closing/Latching Door

Dual Cylinder Saddles with Chains per Cylinder

### Options:

Process Out Gas Filters rated at 0.003 $\mu$

Purge Gas Purifiers

Controller Heaters

UVIR for Silane Systems

Cylinder Scales for liquefied gases

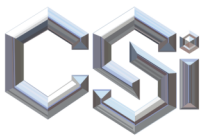
Gas Chiller/Heaters

Multi-cylinder systems

All Critical Systems Reconditioned Gas Cabinets comply with applicable codes and guidelines by OSHA, TGO, NEC, Uniform Fire Code (UFC80), International Fire Code, NFPA, and SEMI S2. CE and NRTL compliant.

Since 2000, Critical Systems, Inc. (CSI) has been supporting the breakthrough technologies of our customers with practical, cost effective solutions that "surround the process tool".

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## RECONDITIONED & WARRANTIED GAS CABINETS (cont.)

### Controller Features:

- Color or Monochrome Displays
- Real Time Flow Schematics
- Simple, Intuitive Keypad
- User Settable Alarm Limits and Functions
- Automated Cycle Purge Routines
- Independent Life Safety Board
- Visual and Audible Fault and Shutdown Alarms
- Digital Inputs for Cabinet Shutdown
- Multiple Password Level Access
- Ethernet and Analog Outputs
- Z-Purge for Class 1 Div 2 Compliance
- Digital Customer I/Os



### Panel Features:

- Logical Gas Flowpath with 10Ra Surface Finishes
- Well known Brand Name Components for long life
- Maintenance friendly design with replaceable components
- Springless Diaphragm Valves and Tied Diaphragm Regulators
- Strategically placed purge and vent valves for efficient bottle changes
- High Precision Pressure Transducers
- Excess Flow Switches
- Trickle flow purge valve
- DISS and CGA Cylinder Connections
- High Flow Options

### Facilitation Information:

Pneumatic Supply: Pneumatic supply rated at 85 - 95 psig

Process Gas Line Sizing: Components and tubing sized to deliver customer's required flow rate

Process Outlet: 1/4" Tube Stub Standard, 3/8" High Flow and 1/2" Coax Outlets Optional

Venturi Inlet: 1/4" Tubing, 75 - 95 psig of Nitrogen

Purge Inlet: 1/4" from a dedicated purge source. System requires 80 - 90 psi of UHP N2

Vent Outlet: 1/4" Tubing

Cabinet Exhaust: 6" Vent Stack Duct Size

Electrical: 100 - 240 VAC @ 150 VA maximum, Single phase to neutral grounded 3 wire, 50 to 60 Hz

Equipment Grounding: Use Alpha #1239, 1-3/8" flat braid or equivalent CE marked systems (total length < 10 ft)

Operating Voltage: 100 - 240 VAC, 50 - 60 Hz, 4 amps

Sprinkler: 30 psi @ 31 gpm

Exhaust: Dampened Exhaust for UFC Requirements. Standard flow to 250 scfm; Code 13 Hi-Flow to 810 cfm

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