Gas Cylinder Safety Cabinets

Model LGSC

New Expanded Size for Laboratory and Research
Our new laboratory safety cabinets provide a safe and cost-effective means to isolate hazardous gas cylinders from the surrounding workplace and protect cylinders and delivery systems from accidental contact, unauthorized handling and tampering. The cabinet exhaust vent is designed to be coupled with a fan (not supplied) to provide a local exhaust gas control system to maximize operator safety when storing and working with hazardous gases.

Gas cylinder leaks due to improper handling, regulator failure, mechanical stress and corrosion can occur in laboratory facilities. Hazardous and corrosive gases such as hydrogen chloride, chlorine, hydrogen sulfide or ammonia should be isolated from the workplace to minimize personnel exposure to toxic leaks. Safe cylinder gas storage is addressed in Federal and local OSHA building and fire codes.

These new laboratory safety cabinets provide substantial enhancements to those offered by standard industrial gas cabinets. The extended size provides more usable space to accommodate larger cylinders and equipment installations; detachable plate(s) on the roof provides ease of access for custom drilling of conduit and gas piping installations; and a safety eye shield in access window(s) provides additional protection for the operator.

Model LGSC cabinets are available in single, two and three cylinder configurations, and feature a removable back panel attached to strut channels. The removable panel or strut channels can be used for mounting regulators, valves, custom panels and other components of a gas delivery system. Window(s) permits visual inspection and access into cabinet for adjustments while minimizing operator exposure to potential toxic leaks. Water sprinkler head on the ceiling provides for extra fire protection, while adjustable cylinder brackets secure cylinders from falling in the event of a fire or earthquake.

Benefits/Features
All-welded construction using 11-gauge steel (exceeds code requirements) provides for extra structural strength
Extended height and depth design allows for additional space for larger cylinders and equipment installations
Detachable plate on rear of roof provides ease of access for custom drilling of conduit and gas piping installation
Safety eye shield in access window provides additional protection for the operator
Powder-coat painted interior and exterior finish enhances cabinet appearance
Inlet air-louvered panel with filter on base of door(s) provides maximum coverage of air flow through cabinet while minimizing contamination from ambient air impurities
Removable white back panel on inside rear of cabinet can be used to mount the gas delivery system
Adjustable cylinder bracket(s) with chain(s) accommodate a large range of cylinder sizes and secures cylinders to prevent toppling
Neoprene gaskets ensure positive seal around door(s) and window(s)
Door(s) and wire-reinforced safety glass access window(s) close and latch automatically, preventing them from being accidentally left open
Keyed door and window latches prevent unauthorized entry
Fire sprinkler head provides an extra measure of fire protection
Exhaust vent located on top of cabinet designed to connect to a local exhaust gas control system
Durable zinc-plated steel diamond deck flooring for loading and unloading cylinders
Recessed floor mounting holes provide ease of installation
Oil-free door and window closer prevent oil contamination caused by leaking seals

Optional Features
Adjustable cylinder shelves to accommodate smaller sized gas cylinders
Fusible link damper
Outdoor weather-proof model
Custom cabinet colors are available to match users’ needs
Cylinder scales
Fixed gas detection and monitoring
Emergency shut-off and alarm systems
**Specifications**

**Compliances:** Uniform Fire Code, Uniform Building Code, International Fire Code, Safety Guidelines for Semiconductor Manufacturing

**Integral Sprinkler:** 160°F to 165°F activation, coated with bee's wax for protection from corrosive environments

**Window:** 1/4" thick, wire-reinforced safety glass

**Safety Eye Shield:** Transparent 0.20" thick

**Door Latch:** Flush mounted, paddle type

**Locks:** Matching key lock for door and window

**Exhaust Vent Dimensions:** See table below

**Water Pipe Connection:** 1/2" NPTM

**Color:**
- Cabinet: Light gray
- Window Frame: Dark gray

**Paint:** Powder coat

**Surface:** Textured finish

**Flooring:** Diamond deck steel over steel flooring with recessed floor mounting holes

**Dimensions:** See table below

**Approximate Weight:** See table below

**Materials of Construction**

**Cabinet:** 11-gauge cold-rolled steel

**Floor:** Zinc-plated steel

**Gaskets:** Neoprene

**Fasteners and Latch:** Stainless steel and PTFE

**Removable Back Panel:** Schedule 12-steel painted gloss white

**Cylinder Straps:** 1-1/2" wide polypropylene strap and secondary zinc plated steel safety chain

**Filter:** Rigid polycarbonate

**Safety Eye Shield:** LEXAN™ polycarbonate

**Ordering Information**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cabinet Type</th>
<th>Dimensions (H x D x W)</th>
<th>Exhaust Vent (diameter)</th>
<th>Weight (approximate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QLGSC-1</td>
<td>1-Cylinder</td>
<td>78.5 x 21 x 18</td>
<td>6</td>
<td>280</td>
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<td>QLGSC-2</td>
<td>2-Cylinder</td>
<td>78.5 x 21 x 26</td>
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<td>QLGSC-3</td>
<td>3-Cylinder</td>
<td>78.5 x 21 x 40</td>
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