

# 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 useable 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



## Gas Cylinder Safety Cabinets (cont'd.)

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#### 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

**Door and Window Closer:** Oil-free PTFE seals

**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

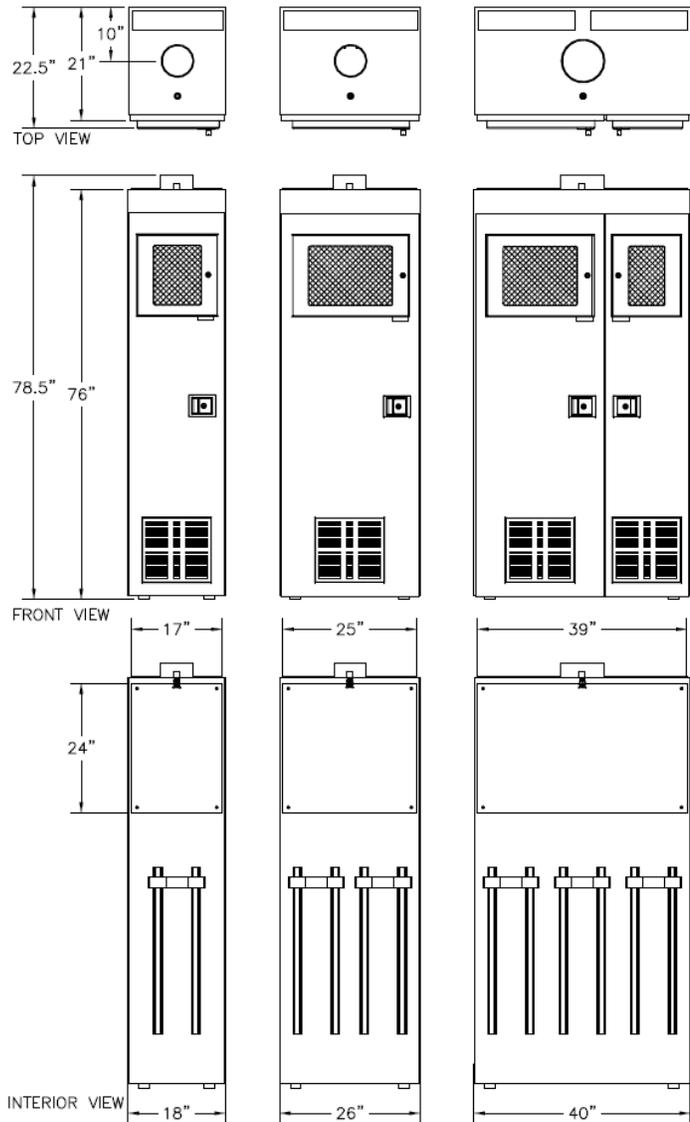
**Fasteners and Latch:** Stainless steel and PTFE

**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

Model Number	Cabinet Type	Dimensions (H x D x W)		Exhaust Vent (diameter)		Weight (approximate)	
		in	cm	in	cm	lbs.	kg
QLGSC-1	1-Cylinder	78.5 x 21 x 18	199 x 53 x 46	6	15	280	127
QLGSC-2	2-Cylinder	78.5 x 21 x 26	199 x 53 x 66	6	15	360	163
QLGSC-3	3-Cylinder	78.5 x 21 x 40	199 x 53 x 102	8	20	495	225