



# Lab Safety Equipment

# CABINETS

The CONCOA C-Series Gas Cabinet Systems are designed to provide unparalleled protection to both the mounted gas supply system and their attached gas cylinders. Constructed with sturdy 11-gauge thick steel, the cabinets are built to meet international fire codes. Cabinets come pre-installed with a 165°F (74°C) sprinkler head near the exhaust vent. Cabinet doors and windows are made to close and latch automatically. The welded unibody construction and rigid cylinder brackets increase sturdiness of the cabinet in the event of fires or earthquakes.



## Custom Cabinets

CONCOA designs and manufactures cabinets to suit any laboratory or analytical requirement. Possibilities include:

- Cabinets with separate pressure controls to deliver multiple gases of similar composition that can be stored in the same location.
  - Cabinets for flammable gases that include emergency shut-off valves, gas detectors, and excess flow switches that can be integrated with a 585 Series emergency shut-off controller.
  - Cabinets for reactive gases that support a variety of purging options.
- Contact CONCOA for more information.

## Features

**All Welded 11-Gauge Steel Construction**  
Protects cylinders and valves from damage

**Epoxy Painted**  
Tough, protective coating

**Sprinkler Head**  
Isolated fire protection

**Removable White Back Panel**  
Facilitates ease of maintenance

**Adjustable Brackets**  
Allow for precise hose alignment

**Automatic Closing Door and Window with Keyed Door Latch**  
Prevent unwanted access to cylinder and gas system

**Ventilation Louvers**  
Provide cabinet interior with adequate air flow circulation

## Materials

**Enclosure**  
11-gauge (3mm) thick steel

**Paint**  
Epoxy  
Smooth interior, textured exterior

**Fasteners**  
Stainless Steel

## Specifications

**Exhaust Duct**  
6" (152mm) diameter  
3" (76mm) high

**Sprinkler Head**  
165°F (74°C) activation point  
Beeswax coated  
1/2 in MNPT connection

**Adjustable Cylinder Brackets**  
Accommodates 7" (177 mm) to 9" (228 mm) diameter cylinders.  
Chain and strap included.

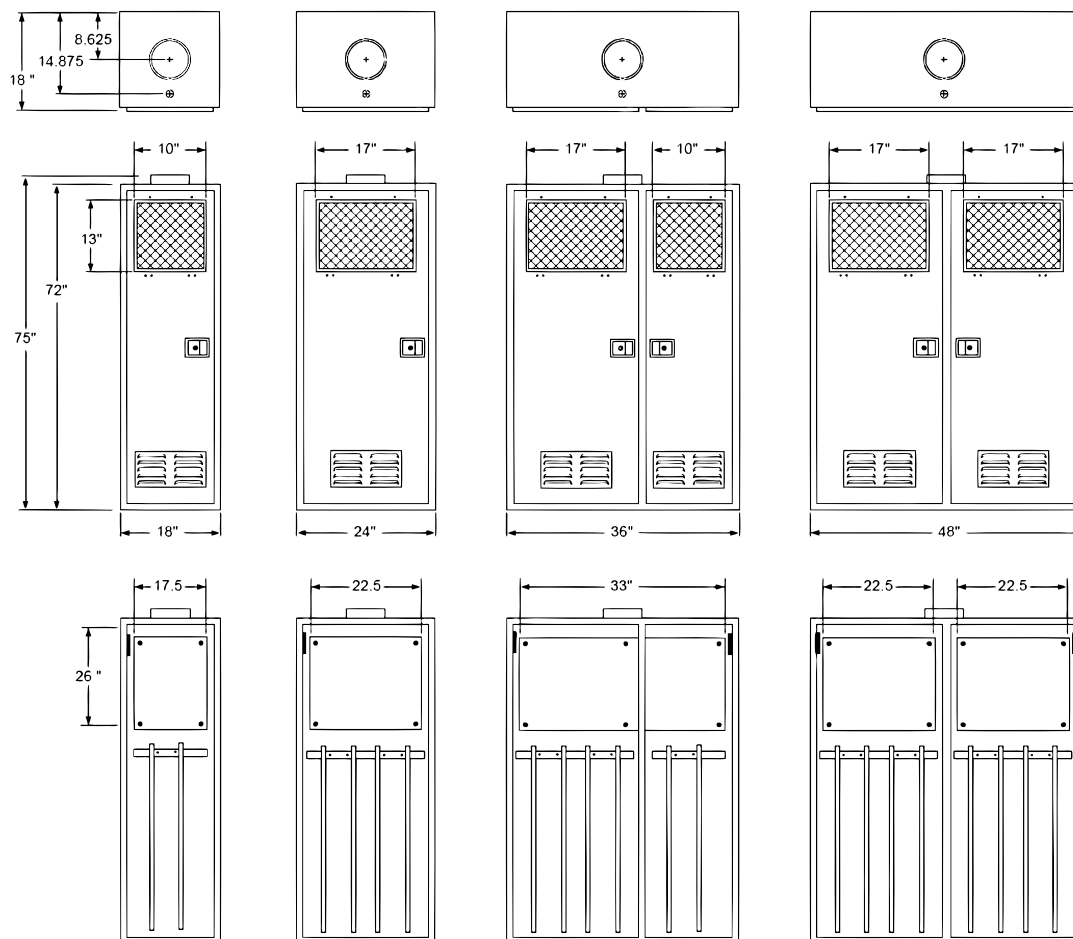
**Fire-Rated Window**  
1/4" thick clear wire glass

**Empty Weight**  
C1: 250 lbs (113 kg)  
C2: 275 lbs (125 kg)  
C3: 375 lbs (170 kg)  
C4: 470 lbs (213 kg)

# Lab Safety Equipment



## C Series Cabinet Installation Information



## Ordering Information

Cabinet	Cylinders	Regulator/Switchover Part Number	Description
<b>C</b>	<b>1:</b> One	<b>XXX XXXX-XXX</b>	One cylinder cabinet system for 400, 300, and 200 Series regulators with 529 Protocol Station Systems.
	<b>2:</b> Two		Two cylinder cabinet system for use with 515, 526, 527, 530, and 540 Series systems, 529 Series Protocol Station systems, and with all 400, 300, and 200 Series regulators.
	<b>3:</b> Three		Three cylinder cabinet system for use with 515, 526, 527, 530, 540 and 542 Series systems, 529 Series Protocol Station systems, and with all 400, 300, and 200 Series regulators.
	<b>4:</b> Four		Four cylinder cabinet system for use with 515, 526, 527, 530, 540 and 542 Series systems, 529 Series Protocol Station systems and with all 400, 300, and 200 Series regulators.

For example, to order a single-cylinder cabinet system with a 422 Series regulator with an outlet pressure range of 0-50 PSIG (0-3.5 BAR), a 0-4000 PSIG (0-275 BAR) inlet pressure gauge, a diaphragm valve with a 1/4" compression tube fitting, PSIG/kPa pressure gauges, and a CGA 350 connection for hydrogen service with Protocol Station, the part number would be: **C1-4222331-350M**. If ordering a 2-cylinder cabinet with a 527 Series switchover for hydrogen use, the part number would be: **C2-5274171-350**.

## Cabinets Without Installed Distribution Equipment

Cabinet	Order Number	Description
C1	518 2001	One cylinder cabinet
C2	518 2002	Two cylinder cabinet
C3	518 2003	Three cylinder cabinet
C4	518 2004	Four cylinder cabinet

# Ordering CONCOA Gas Cabinet Systems



## Ordering Instructions

CONCOA C-Series Gas Cabinets are available with a variety of CONCOA gas equipment configurations. For example, to order a single-cylinder cabinet system with a 422 Series regulator with an outlet pressure range of 0-50 PSIG (0-3.5 BAR), a 0-4000 PSIG (0-275 BAR) inlet pressure gauge, a diaphragm valve with a 1/4" compression tube fitting, PSIG/kPa pressure gauges, and a CGA 580 connection for Nitrogen service with Protocol Station, the part number would be:

**C1-422 2331-350M**

If ordering a 2-cylinder cabinet with 527 Series switchover with 200/170 PSIG (13.5/11.5 BAR) switching pressure with a 0-150 PSIG (0-8 BAR) line regulator for Hydrogen use with 36" (900mm) hoses, the part number would be:

**C2-527 4171-350**

Standard regulator  
part number selection

**C1-XXX XXX-XXX** One cylinder cabinet system for 400, 300, and 200 Series regulators with 529 Protocol Station systems.

Standard regulator/switchover  
part number selection

**C2-XXX XXX-XXX** Two cylinder cabinet system for use with 526, 527, 515, 530, 540 and 542 Series system, 529 Series Protocol Station systems, and with all 400, 300, and 200 Series regulators.

**C3-XXX XXX-XXX** Three cylinder cabinet system for use with 526, 527, 515, 530, 540 and 542 Series systems, 529 Series Protocol Station systems, and with all 400, 300, and 200 Series regulators.

**C4-XXX XXX-XXX** Four cylinder cabinet system for use with 526, 527, 515, 530, 540 and 542 Series systems, 529 Series Protocol Station systems and with all 400, 300, and 200 Series regulators.

## Custom Cabinets

Along with a wide range of standard cabinet configurations, CONCOA provides custom gas cabinets manufactured in accordance with ISO9001 standards and backed by decades of industry experience. CONCOA's unique capabilities maximize safety and reliability while providing the highest level of flexibility for monitoring and control of flammable and hazardous gas sources. Custom gas delivery equipment, gas detection, and safety device options such as emergency shutoff valves and emergency shutoff controllers allow the user to design a complete, safe, and interconnected gas delivery system. Combined with applications assistance from industry experts, CONCOA's custom gas cabinets meet application specific requirements to ensure regulatory compliance and performance in any environment worldwide. For more information, please contact CONCOA directly.