

SAFETY

STORAGE CABINETS

Flammable & Acid-Corrosive Liquid Storage Cabinet

MyLab+ safety Cabinets ensure maximum protection for both personnel and products. The Flammable Liquid Storage Cabinets are specifically designed for the storage of flammable and combustible liquids. The Acid-Corrosive Liquid Storage Cabinets are designed and built for the safe storage of corrosive chemicals. These cabinets are designed in accordance with NFPA (National Fire Protection Association), and OSHA (Occupational Safety and Health Administration) regulations



FEATURES OF MyLab+ SAFETY CABINET

MyLab+ Safety Storage Cabinets are produced in accordance with NFPA 30 Chapter 9.5.3 and OSHA 29 CFR 1910.106 regulations

Double Wall Construction with 1 1/2" Air Space (NFPA 30, OSHA 1910.106, FM 6050)

Continuous Piano Hinge

Static Ground Connection (NFPA 30, OSHA 1910.106, FM 6050)

Adjustable Zinc Plated Levelling Legs



Heavy-duty ribbed, galvanized steel shelves deliver load capacity of 150 kgs per shelf and are adjustable on 3" (75mm) vertical centers



Leak Proof Sill 2" Deep, Prevents Leakage in the Event of Accidental Spills (NFPA 30, OSHA 1910.106, FM 6050)



Two 2" Vents with Flame Arrestor (FM 6050)

Warning Label (NFPA 30, OSHA 1910.106, FM 6050)

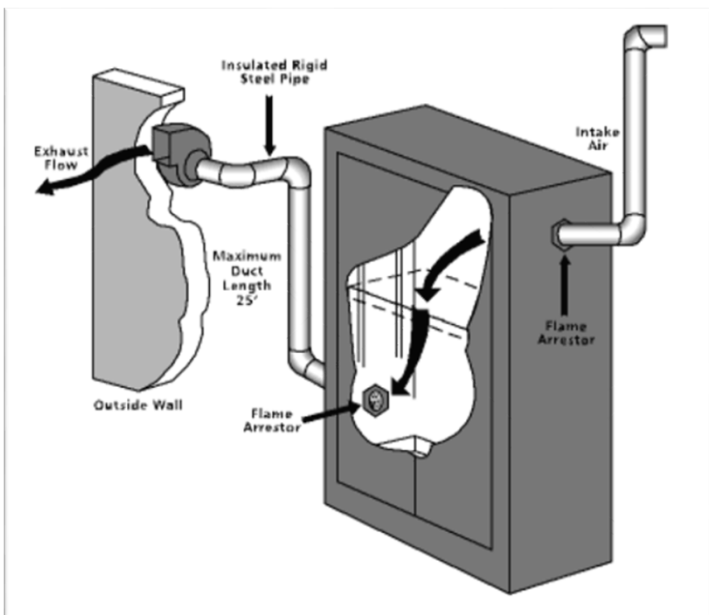
3-Points Latch Locking Mechanism (NFPA 30, OSHA 1910.106, FM 6050)

Self-closing, self latching, synchronized doors, ensure that the left door closer prior to the right door (For self-closing models)



GUIDELINES TO VENT THE SAFETY STORAGE CABINET

1. Remove both metal bungs from sides of cabinet and replace flame arrester screens into the openings.
2. Connect the bottom opening to the exhaust fan using rigid metal tubing equivalent or better than that used in construction of cabinet. Tubing must have an inner diameter no less than that of the opening. Several places require welding of the tubing to the cabinet to avoid riveting or other methods that may impede the cabinet's fire protection. PVC should not be used since it cannot withstand excessive temperatures.
3. The top opening shall serve as the fresh air inlet. The make-up air should be supplied to the fresh air inlet in tubing similar to that used for the exhaust.
4. A suitable fan should be constructed of non-sparking blades and shrouds. Mechanical exhaust ventilation is preferred and should also comply with NFPA 91 Standard for Exhaust Systems for Air Conveying of Vapours, Gases, Mists and Non-compatible Particulate Solids.
5. The total run of the exhaust duct should not exceed 25 feet.
6. DO NOT manifold vents of multiple cabinets—in many localities it is prohibited.



The venting needs to be consulted for engineering guidance to ensure their specific venting protocol is met

Flammable Liquid Storage Cabinet Models

Part No.	Door Type	Capacity	Dimension	Shelves
FSC04171722M FSC04171722S	Manual Self-Close	4 gal	W=432mm D=432mm H=559mm	1
FSC12231835M FSC12231835S	Manual Self-Close	12 gal	W=584mm D= 457mm H=889mm	1
FSC16231844M FSC16231844S	Manual Self-Close	16 gal	W=584mm D=457mm H=1118mm	1
FSC22231865M FSC22231865S	Manual Self-Close	22 gal	W=584mm D=457mm H=1651mm	2
FSC30431844M FSC30431844S	Manual Self-Close	30 gal	W=1092mm D=457mm H=1118mm	1
FSC45431865M FSC45431865S	Manual Self-Close	45 gal	W=1092mm D=457mm H=1651mm	2
FSC60313165M FSC60313165S	Manual Self-Close	60 gal	W=865mm D=865mm H=1651mm	2

Corrosive Liquid Storage Cabinet Models

Part No.	Door Type	Capacity	Dimension	Shelves
CSC04171722M CSC04171722S	Manual Self-Close	4 gal	W=432mm D=432mm H=559mm	1
CSC12231835M CSC12231835S	Manual Self-Close	12 gal	W=584mm D= 457mm H=889mm	1
CSC16231844M CSC16231844S	Manual Self-Close	16 gal	W=584mm D=457mm H=1118mm	1
CSC22231865M CSC22231865S	Manual Self-Close	22 gal	W=584mm D=457mm H=1651mm	2
CSC30431844M CSC30431844S	Manual Self-Close	30 gal	W=1092mm D=457mm H=1118mm	1
CSC45431865M CSC45431865S	Manual Self-Close	45 gal	W=1092mm D=457mm H=1651mm	2
CSC60313165M CSC60313165S	Manual Self-Close	60 gal	W=865mm D=865mm H=1651mm	2

Polypropylene (PP) Tray for Safety Cabinet

Part No.	Dimension (W x D x H)
PT00000004B	340mm x 340mm x 50mm
PT00121622B	480mm x 365mm x 50mm
PT00003045B	1000mm x 365mm x 50mm
PT00000060B	700mm x 690mm x 50mm

FEATURES OF SAFETY STORAGE CABINET

MyLab+ Safety Cabinets are produced in accordance with NFPA 30 Chapter 9.5.3 and OSHA 29 CFR 1910.106 regulations

- 2" (50mm) deep liquid tight containment sump covering the entire floor of the cabinet
- 18-gauge (1.2mm) double walled Electro-galvanized steel construction, along with 1-1/2" (38mm) air spaces between the walls, store flammable liquids and waste securely and safely
- Fully welded construction, increasing fire protection by reducing gapping
- Integrally welded, interlocking shelf hangers increase stability while reducing hardware
- Durable powder coat paint will resist solvents, acids and alkalis
- Two grounding attachment points at the rear of all cabinets for easy grounding
- Continuous full door height piano hinges
- FM & UL approved fusible-link hold open feature ensures the door closes should the temperature outside the cabinet exceed 165° F (74° C)
- Manual and self-closing door options are available
- Self-closing, self-latching synchronized doors, ensure that the left door closes prior to the right door
- Equipped with a lockable, three-point latching mechanism for additional security
- Adjustable levelling screws lower or raise the cabinets by 1" (25mm) at each corner
- Polypropylene (PP) trays for galvanized steel shelves offer additional protection and have a 2" (50mm) raised edge to contain the spills (Optional)
- Polypropylene (PP) trays in the bottom sill area catch incidental spills and leaks (Optional)
- Legible and durable Prominent hazard or Safety labels are provided
- Upper and lower diametrically opposed side vent with flame arrestor for proper venting and a Ø4" (100mm) top vent when specified

SPECIFICATIONS FOR FLAMMABLE & ACID-CORROSIVE SAFETY STORAGE CABINETS

NFPA 30 Chapter 9.5.3 (1)

States that "storage cabinets are designed and constructed to limit the internal temperature at the centre of the cabinet and 1 in. (25 mm) from the top of the cabinet to not more than 325° F (163°C), when subjected to a 10-minute fire test that simulates the fire exposure of the standard time-temperature curve specified in NFPA 251, Standard Methods of Fire Resistance of Building Construction and Materials, shall be acceptable. All joints and seams shall remain tight and the door shall remain securely closed during the test".

NFPA 30 Chapter 9.5.3 (2) and OSHA 29 CFR 1910.106 (d)(3)(ii)(a)

State that "metal storage cabinets constructed in the following manner shall be acceptable:

- (a) The bottom, top, door and sides of the cabinet shall be at least No. 18 gauge sheet steel and shall be double-walled, with 1½ in. (38 mm) air space.
- (b) Joints shall be riveted, welded, or made tight by some equally effective means.
- (c) The door shall be provided with a three point latch arrangement, and the door sill shall be raised at least 2 in. (50 mm) above the bottom of the cabinet to retain spilled liquid within the cabinet."

OSHA 29 CFR 1910.106 (e)(2)(ii)(b)

States that "the quantity of liquid that may be located outside of an inside storage room or storage cabinet in a building or in any one fire area of a building shall not exceed:

- a. 25 gallons of Class 1A liquids in containers
- b. 120 gallons of Class 1B, 1C, or II or III liquids in containers
- c. 660 gallons of Class 1B, 1C, II or III liquids in a single portable tank"