



Chemical Storage Cabinet

LMCSC-A101

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1. Introduction

Chemical Storage Cabinet LMCSC-A101 is designed and built for the safe storage of acids & corrosive chemicals. The double-walled and double layered structure contributes in sturdiness of the equipment. High quality of galvanized steel sheet is used to form a 38mm gas proof and fire proof insulator space. With three movable shelves this ventilated cabinet has a capacity of 22/83 (Gal/L) . These cabinets are made resistant to the chemical stored in them.

2. Features

- Double-walled door with a lock system in the handle to provide full security
- It has a Single door; manual-closing
- Inbuilt gas proof and fire proof insulator for convenient operation
- Specialized environmental friendly, corrosion resistant electrostatic coating Integrated with fire and explosion proof vents that prevent fire hazards
- Allows safe and easy storage, reducing the need for risky, difficult transportation
- Structured with Ventilation grids to prevent the build-up of potentially dangerous vapours

3. Specifications

Model No.	LMCSC-A101
Capacity	22/83 (Gal/L)
Door Type	Single door, Manual
Adjustable shelves	3 pcs
Shelf loading Weight	50 kg
Internal Dimension	1550×514×380 mm (H×W×D)
External Dimension	1650×600×460 mm (H×W×D)
Packing Dimension	1820×700×570 mm (H×W×D)
Net Weight	82 kg
Gross Weight	102 kg

4. Applications

Chemical Storage Cabinet is suitable to store toxic chemicals like mercury salts, cyanide, sulfide, arsenide etc. that are widely used in chemical plants, research institutes, major universities laboratories.

5. Installation

- 1) Carefully unwrap the cabinet and remove it from the carton box.
- 2) Transport the cabinet to the installation location.
- 3) Use a trolley or stair lifter to retrieve the flammable liquids cabinet from the delivery area, keeping the packaging intact.
- 4) Position the flammable cabinet in the designated location and ensure that no ignition sources are present.
- 5) Place the cabinet in a well-ventilated area to avoid the accumulation of hazardous fumes.

Door Closing System

- Ensure the flammable liquids cabinet is installed on a level base, allowing the sequential door closing system to work correctly.
- If the doors are not closing properly adjust the mechanism first.
- Adjust the door closing speeds using the adjustment screw on the hydraulic door closer.



Figure-1

6. Operations

Operating a chemical storage cabinet requires adherence to safety protocols and best practices to ensure the safe storage and handling of chemicals.

Weight Distribution: Store heavier containers on lower shelves to prevent tipping.

Flammable storage: Flash point below 45 °C For example: gasoline, alcohol, kerosene, methanol, ethanol, etc.

Combustible storage: Flash point above 45 °C For example: diesel, oil, lubricants, tung oil, etc.

Properly Closing Chemical Containers:

- **Secure Lids and Caps:** Ensure all chemical containers are properly closed with secure lids or caps to prevent leaks and contamination.
- **Tight Seals:** Check that seals are tight and intact to avoid vapor release or spills. Replace worn-out seals as necessary.

7. Maintenance

Daily Checks

- **Visual Inspection:** Perform a quick visual inspection to check for spills, leaks, or damage to containers and the cabinet.
- **Ventilation:** Ensure that all ventilation systems are operating correctly and are not obstructed.

Weekly Maintenance

- **Cleanliness:** Clean any dust or debris from the cabinet surfaces. Use appropriate cleaning agents that do not react with stored chemicals.
- **Inventory Review:** Check and update the chemical inventory, ensuring all items are properly labeled and accounted for.



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