Case Study

Safe Storage of Raw Materials

kardexremstar

Case at a glance

How we took our customer from task to solution
The Yves Rocher Group is an international group of companies that have been manufacturing and marketing cosmetics and body care products since 1959. For their laboratory in Paris, Yves Rocher needed a storage system with access points across multiple-floors and compliant with fire protection regulations.

Innovative fire protection

Customer and task
Yves Rocher's portfolio includes eight brands with approximately 15,000 employees working in 88 countries.

At their Paris laboratory, specialists continuously develop new and innovative product formulas using plant-based active ingredients. Yves Rocher must follow country-specific insurance guidelines when storing their raw materials.

Yves Rocher needed a storage solution with multiple access points that follow fire regulations, and protect their raw materials and storage unit from fire damage.

Solution
Kardex installed two Vertical Lift Modules Kardex Shuttle 250 with an integrated fire protection system to ensure bins, bottles, boxes, and canisters safely store all raw materials.

The use of nitrogen, an inert gas, makes this system unique. It's residue-free and rarely reacts with other substances. If a fire occurs, nitrogen releases inside the storage unit via vertically lined nozzle jets, decreasing the oxygen concentration and extinguishing the fire. Next, to prevent a fire from reigniting, a "hold flooding" occurs. This floods the unit again and keeps the oxygen concentration low for a minimum of ten minutes.

An early warning system continuously takes air samples from plastic pipes along the storage unit. It tests air particles and if the concentration is too high, a visual and acoustic alarm sets off and nitrogen floods the unit.

Immediate **smoke detection**

Goods and storage units stay **safe**

Minimum production downtime

Scope of delivery

2 Kardex Shuttle 250
W: 2,450 mm | D: 610 mm | H: 11,650 mm

6 access openings across 3 floors (2 openings per floor)

Fire extinguishing system with the inert gas nitrogen