



CT-TECHNOLOGIES

Engineering Climate-Controlled Facilities

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Project report

COLD STORAGE WITH AMMONIA REFRIGERATION

COLD STORE AND AMMONIA REFRIGERATION

Location: Ghana

Year of completion: Ongoing

Client: Izako Limited

SCOPE OF SERVICES

- PEB Steel structure
- QuadCore Sandwich panels
- Rigid polyurethane PIR foam boards
- Doors
- Docking equipment
- Light Fixtures
- Design, supply and installation of ammonia refrigeration plant.

PROJECT FACTS

- Facility size: 90 m x 67 m x 13 m
- 8 cold rooms: Temperature -20 °C,
- 2 controlled temperature rooms: Temperature +0 °C /+15 °C
- 1 corridor: Temperature +10 °C /+15 °C

ACHIEVEMENTS

- Turnkey project features ammonia-based refrigeration with efficient, well-insulated cold rooms using sustainable materials.
- Zero GWP solution reduces operational costs and minimizes carbon footprint.
- Focus on developing local teams' skills in ammonia refrigeration installation, enhancing operational efficiency and driving economic growth.



FUNCTIONS

The Izako Cold Storage facility in Ghana, designed and engineered by CT-TECHNOLOGIES, focuses on providing sustainable and energy-efficient storage for perishable goods. Spanning 90x67x13 meters, it includes eight cold rooms set at -20°C , totaling 4550 sqm, two controlled temperature rooms from $+0^{\circ}\text{C}$ to $+15^{\circ}\text{C}$, covering 313 sqm, a corridor at $+10^{\circ}\text{C}$ to $+15^{\circ}\text{C}$, covering 591 sqm, and a machine room of 256 sqm.

The facility is designed to offer long-term storage solutions for frozen meat, poultry, fish, tomatoes, fruits, and vegetables. To optimize performance, it features high-quality sandwich panels, insulated doors, floor insulation, lighting, and refrigeration systems.

Izako Cold Storage is a central hub for bulk storage and distribution, supporting both domestic supply chains and international exports.

The facility uses an energy-efficient ammonia-based refrigeration system that ensures reliable cooling while minimizing operational costs and environmental impact. The incorporation of sustainable materials, such as Quadcore insulated sandwich panels and rigid polyurethane PIR foam boards, further enhances its energy efficiency.





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