



CT-TECHNOLOGIES

Engineering Climate-Controlled Facilities

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Project report

AIRPORT TEMPERATURE CONTROLLED LOGISTICS

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Location: Cotonou airport, Benin

Year of completion: Ongoing

Client: PACOFIDE –
World Bank Project

PROJECT FACTS

Capacity: 800 Pallet Position
3000 sqm + office building
Cold rooms temperature from
-20°C to +18°C
Operational areas with
scanners

SCOPE OF SERVICES

The project includes full detailed engineering design and the execution of civil and road works.

Supply and Installation:

- PEB steel structures.
- Docking equipment PIR Sandwich Panels Floor insulation including vapor, barriers & Insulated Doors.
- Complete HFC low GWP refrigeration system.
- Material Handling Equipment (electric forklift & reach trucks).
- 2 Dual Generator Cargo Scanners & 500 kVA backup Genset.

The project concludes with the commissioning of the plant to ensure full operational readiness.

ACHIEVEMENTS

- Turnkey Solution compliant with international airport standards.
- Low electricity consumption due to high insulation properties and efficient.



FUNCTIONS

The temperature-controlled logistics facility at Cotonou Airport in Benin, developed by PACOFIDE as part of a World Bank project, is designed to handle a variety of temperature sensitive-goods. Spanning 3,000 sqm with 800 pallet positions, the facility is designed to accommodate a diverse range of products including perishable goods in particular for pineapple, pharmaceuticals, and frozen products.

The facility features advanced cold rooms with a temperature range of -20°C to +18°C, tailored for optimal storage flexibility. Its operational design includes dedicated import and export corridors equipped with dual generator-powered scanning systems, ensuring seamless logistics flow.

Sustainability is at the core of the design, with an eco-friendly HFC low-GWP refrigeration system, insulated PIR sandwich panels, insulated floors and doors, and a robust PEB steel structure.

Electric forklifts and reach trucks streamline material handling for maximum efficiency.

For uninterrupted operations, a powerful 1,000 kVA backup generator guarantees power reliability. Complemented by extensive civil and road infrastructure, this turnkey solution adheres to international airport standards while minimizing energy consumption through high-quality insulation and energy-efficient systems.





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