



CT-TECHNOLOGIES

Engineering Climate-Controlled Facilities

GLOBAL OFFICES: DENMARK, GERMANY, BOSNIA&HERZEGOVINA, INDONESIA, PHILIPPINES, SINGAPORE, BENIN
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Project report

AIRPORT TEMPERATURE CONTROLLED LOGISTICS

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Location: Bujumbura airport,
Burundi

Year of completion: 2023

Client: PDLE – World Bank Project

PROJECT FACTS

Capacity: 500 Pallet Position 2000
sqm + office building

Cold rooms temperature from
20°C to +18°C

Operational areas with scanners

SCOPE OF SERVICES

The scope of work includes the full detailed engineering design, covering all aspects of the project to meet technical and industry standards. It also involves 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.
- MHE (electric forklift & reach trucks) & Warehouse Management System.
- 2 Dual Generator Cargo Scanners & 1x500 kVA backup Genset.

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

ACHIEVEMENTS

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



FUNCTIONS

This facility ensures efficient handling of sensitive products based on 2 corridors, an unloading area and a dispatch one.

In the export corridor, perishable products like fruits and vegetables are unloaded into a pre-cooling area (from +28°C to +14°C), pass through security scanning, stored in euro pallets on racking system in the storage rooms and are built onto air pallets when ready for departure in airplanes.

The temperature-controlled rooms range from 0°C to +10°C, ensuring freshness until departure.

The import corridor includes security scanning, a pharmaceuticals storage room, and storage areas with temperatures ranging from -20°C to 0°C.

Both corridors are equipped with material handling equipment and a warehouse management system (WMS) to streamline product handling from unloading to the aircraft.





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