

FRIGOBX NATURALLY FRIENDLY FOR ENVIRONMENT

NESTLÉ USES FRIGOBX, A NEW TECHNOLOGY USING NATURAL REFRIGERANTS FOR AIR CONDITIONING IN DEVELOPING COUNTRIES.
Builder

 Nestlé Harare
 ZIMBABWE

Planning

 Nestec, Switzerland
 Avenue Nestlé 55
 1800 Vevey
 SWITZERLAND

**Refrigeration
 Technology Contractor:
 Air Conditioning**

 AXIMA REFRIGERATION
 6 rue de l'atome
 67800 Bischheim
 FRANCE

**Nestlé supports the use
 of natural refrigerants
 in refrigeration**

In a statement published in 1991, Nestlé declared its position in favour of the use of natural refrigerants. Wherever possible, Nestlé's industrial refrigeration systems would use natural refrigerants, ammonia (NH₃) and carbon dioxide (CO₂) and it would promote the corresponding technology.

After its initial success with natural refrigerants used for air conditioning in Orbe (Switzerland), Nestlé began to promote the corresponding technology. Two new units were installed in Africa: in Zimbabwe and Angola.

**Why did Nestlé Zimbabwe
 need FRIGOBX?**

Nestlé operates a factory in Harare, producing milk powder and cereals for the local market.

For air conditioning of process area, Nestlé has chosen FRIGOBX, a sustainable solution with natural refrigerants and high efficiency.

Nestlé Zimbabwe and AXIMA REFRIGERATION have been working together to anticipate the addition of 2 further FRIGOBX, preparing layout and piping design. This will allow refrigerating capacity to be doubled ready for a future laboratory and new offices.


**Reduction of carbon foot print with FRIGOBX solution:
 12 Tonnes CO₂/year**

Comparison with R134a chiller

Equivalent to drive 2 times the earth circumference (81 000 km/year) with a 4HP diesel vehicle

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FRIGOBX: high quality water chilling unit

All FRIGOBX comply with European codes and standards and have CE certification, wherever they are installed.

This "plug and play" water cooling unit is easy to integrate on site. The whole refrigeration system is mounted on one skid and features a steel frame and casing. Before shipping, the 2 FRIGOBX are pre-set and tested according to site application requirements.

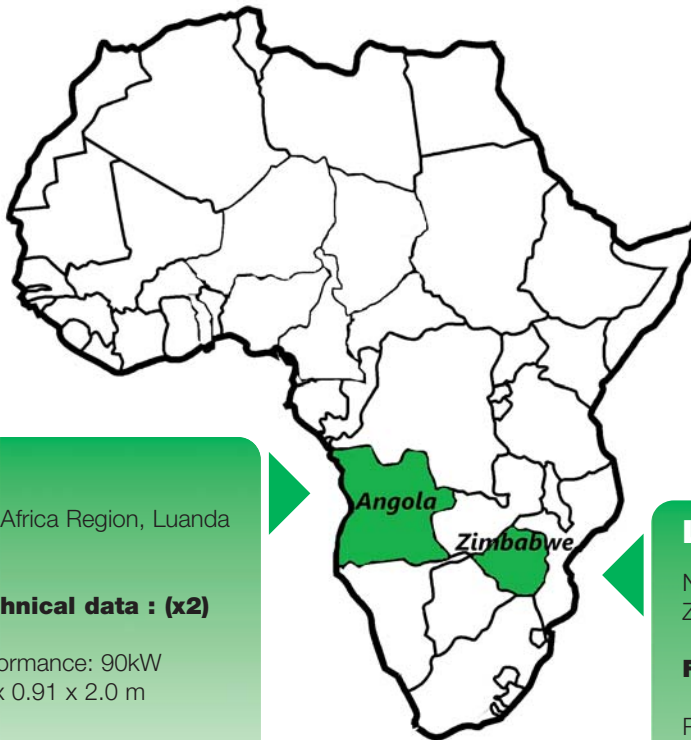
As regards safety, compact construction and optimal refrigeration performance mean that the unit uses only minimal amounts of the refrigerant ammonia. Gas detection and ventilation are integrated in the box. A separate electrical panel shuts down the unit by gas alarm to prevent live electricity in NH₃ gas area.

The operator can easily navigate in the PLC menu to view all data results on an SPS touch panel.

FRIGOBX implantation
Nestlé Zimbabwe



Nestlé FRIGOBX
installations in Africa



AXIMA REFRIGERATION

Planning Services

Refrigeration planning including the monitoring of a smooth-running project.

Refrigeration plants and cooling units

Food processing, industry, processing technology, cold storage, ice rinks.

Services

Maintenance, repairs, renovation, modernization, reconstruction. Energy consultation.

Location :

Nestlé Equatorial Africa Region, Luanda
Factory ANGOLA

FRIGOBX technical data : (x2)

Refrigeration performance: 90kW
Dimensions: 2.2 x 0.91 x 2.0 m
Weight: 1 400 kg
Refrigerant: Ammonia
Charge: 5kg
Temperature inlet/outlet: 5°C/11°C

Location :

Nestlé Equatorial Africa Region, Harare
ZIMBABWE

FRIGOBX TECHNICAL DATA : (X4)

Refrigeration performance: 70 kW
Dimensions: 2.2 x 0.91 x 2.0 m
Weight: 1 200 kg
Refrigerant: Ammonia
Charge: 5kg
Temperature inlet/outlet : 6°C/12°C



AXIMA Refrigeration
GDF SUEZ

AXIMA REFRIGERATION FRANCE

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