



## CONTEXT

**Customer :** La Perrière

**Sector of activity :**  
Transport-Food

**Location :** Le Port (La Réunion)  
**Year :** 2023

**Equipment installed :**  
EKO.E MT HE A BP/LN/HR/EC/II  
1604SE

**Description of the equipment :**  
R290 chiller  
\*Air cooling  
\*VFD on reciprocating compressors  
\*2 tandem circuits

**Total capacity :**  
250kW | -4°C/-9°C @+35°C

## THE CUSTOMER

Established on Réunion Island since 1886, the La Perrière group, which specialises in maritime transport operations for the distribution of dry and fresh produce, has opted for sustainable and responsible refrigeration and heating production for the construction of its new sub-zero temperature platform. Together with a number of other players, they have opted for a low-carbon, highly energy-efficient solution that reconciles environmental challenges with energy performance.

Our unit, a propane-fired air-cooled condensing unit, offers the best solution on the market in terms of the potential for global warming associated with the use of refrigerants. Equipped with two separate refrigeration circuits, using 4 x 50 HP Frascold reciprocating compressors, the unit delivers 250 kW of power to the evaporator at a frequency of 50 Hz, giving a compressor EER of 2.68 for chilled water production at -9°C.

The aim of chilled water production is to maintain the temperature inside the loading bay at 2°C, and to enable the condensation of two subcritical CO<sub>2</sub> units.

