

Future proofed

F-Gas phase down with NH3

ENSYSTA Refrigeration belongs to the VINCI Energies Group and is a reliable partner and service provider for industrial refrigeration technology. ENSYSTA offers a complete package consisting of design and engineering, new construction, expansion of existing plants, energy improvement projects, overhaul of compressors, troubleshooting and regular maintenance of refrigeration systems. The focus of ENSYSTA Refrigeration is on the saving and recovery of energy, therefore always integrated solutions are planned and delivered considering all given environmental aspects.

The customer, Van Hout Horeca, based in Hamont Achel, Belgium, has built a solid reputation over the last 80 years as a wholesaler of food and non-food items for the hospitality industry.

In Van Hout's over 10,000 products large portfolio for snack bars, restaurants and caterers, there are a large number of cooled and frozen products. Until recently, these were stored in refrigerators and freezers, which were kept cool by a R507a rack with Frascold compressors.

However, the plant was at the end of its life and the annual leak rate led to the decision to install a new system. Van Hout insisted on a future-oriented solution with natural refrigerants, but without compromising the previous efficiency.



 **ENSYSTA**
REFRIGERATION

naturally pumped

Pumping station by WITT

ENSYSTA Refrigeration then installed a NH3 refrigeration system, which, unlike the old R507a direct expansion system, now operates as a pumped system.

The solution from Wijbenga and Cool Green Solutions (CGS) was selected for the compressors and the pump separator.

The CGS compressor group with two Bitzer screw compressors delivers 204.6 kW cooling capacity at -25 ° C / 42 ° C. Wijbenga supplied a 175 kW -28 ° C suitable WITT separator with NH3 pumps to feed the 8 air coolers into the Supplying cooling and freezing rooms with ammonia. A WITT open flash economizer type ECO2 has also been installed to make the most of compressor performance.

The result is impressive:

The customer has not only received a very compact and stable system, which always reaches the set temperatures, the system is also more maintenance-friendly than the previous, far less prone to failure and consumes significantly less energy.

Even in an emergency, ENSYSTA Refrigeration can access the system from anywhere via smartphone or tablet and initiate initial measures.



Technical data

2x Bitzer OSNA7462K-Compressors
1x WITT high efficiency separator HAM
1x WITT open flash economiser ECO2
2x WITT NH3-Refrigerant pumps HRP 3232
1x WITT BDP oil recovery unit

www.ensysta.be

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