



ENERGY SAVING

AXIMA REFRIGERATION Solutions

Electrical consumption of the compressors represents between 40 and 70 % of the overall electrical energy consumption of cooling installation.

The conception of the cooling unit, the suitable choice of technology and refrigerants play a key role to reduce the energy cost.

Up to 50% energy saving

FOCUS ON ENERGY SAVING

Suitable refrigerants and use of diphasique heat transfer fluids (NH₃/ CO₂)

- Over 40% annual saving on energy consumption with use of Ammonia as refrigerant and CO₂ as heat transfer fluid,
- Use of CO₂ as refrigerant and save between 5 and 20% on power consumption,
- Retrofit your R22 refrigerant with respect to EC Regulation N° 2037/2000 and increase your cooling capacity thanks to AXIMA REFRIGERATION customised solution,
- Liquefy your CO₂ using CO₂ as first refrigerant and reduce your Ammonia load by 5 to 60%,
- Improvement of the environmental Impact with use of natural refrigerants.



Energy storage with use of ice slurry

- Increase the performance of the cooling installation,
- Saving on investment : optimised size of the refrigeration unit,
- Over 20% saving on installed power supply and power bills,
- Environmental impact improved with less emission of CO₂.



AXIMA Refrigeration
GDF SUEZ

AXIMA REFRIGERATION FRANCE

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Customised heat recovery programs

- Vaporising CO₂ using CarbovapECO solution,
- Waste heat valorisation by desuperheater,
- Cool concept system of AXIMA REFRIGERATION.



Improvement of cooling plant performance (COP*)

- High floating pressure control,
- High efficiency components (exchangers, compressors...),
- Use of frequency converter for motors of pumps, compressors and fans,
- Optimisation of running conditions with monitoring and data analysis using AXIGEST.

* COP: ratio of the refrigerating power to the absorbed power



Activities

Refrigeration for food industries, chemical industries, supermarkets and hypermarkets, cold storage, air-conditioning, professional kitchens.
GDF SUEZ Refrigeration Training.

