



Natural Innovation From Arneg

ITALIAN REFRIGERATION SPECIALIST ARNEG HAS UNVEILED 'THE NATURALLY INNOVATIVE PROGRAMME', WHICH SEEKS TO ENCOURAGE THOSE USING ITS PRODUCTS TO ADOPT ENVIRONMENTALLY-FRIENDLY PRACTICES.

Global warming and its associated climate impacts are unanimously acknowledged as the main threats to our planet's environmental stability. It has been proved scientifically that global warming mainly comes from greenhouse gas emissions, following the consumption of non-renewable energy.

As a leading international company, Arneg is well aware of the impact its activities have on its employees, the environment, local communities and its customers.

As part of its environmental sustainability policy, Arneg has launched 'The Naturally Innovative Programme', a scheme that will encourage employees, suppliers, customers and all those using its products and services to work towards making our world greener and safer, for our children, grandchildren and future generations.

Commitment

By working on this programme, Arneg is reaffirming its commitment to the development of highly efficient products that are designed with sustainability in mind. This means that they are environmentally-friendly, economically-feasible and fair for users.

The aim is to minimise the direct and indirect CO₂ emissions during the total life cycle of each product. This is obtained by working on a number of different levels.

For direct emission reduction, the areas of intervention are:

- Reduction of refrigerant charges (Arneg water-cooled units integrated with the cabinets)
- Extensive use of natural refrigerants (Arneg CO₂ advanced systems with ejector technology for centralised systems, R290 for plug-in cabinets)

For indirect emission reduction, the areas of intervention are:

- Improvement of the energy efficiency of the total refrigeration system (heat recovery, integration with HVAC system, monitoring and predictive maintenance system)
- Reduction of thermal load (cabinet optimisation, closures, insulating foams)

For each of these intervention areas, Arneg has identified the best solutions as requested by customers to optimise lifecycle costs.

The Right System

As there is no single solution when designing an efficient refrigeration system, Arneg's sustainability solutions are based on key factors including the type and size of the store; geographical location; and expected return on investment.

A leading example of this system in action is the 10,000 square-metre Iper hypermarket, which opened in Arese, near Milan, Italy, in the biggest commercial centre in Europe (92,000 square metres, with 200 stores on offer). All equipment supplied to the store by Arneg represents some of the most advanced solutions today, in terms of sustainability, in the commercial refrigeration field.

The hypermarket (pictured) has obtained LEED Gold Certification, almost the top level in terms of green building accreditation, thanks to the natural refrigerant used (CO₂), which combined with ejector technology improves system efficiency, especially in hot conditions. As well, it features specially-designed cabinets with a very low environmental impact, which is determined after a deep Life Cycle Assessment. ■

For more information, visit www.arneg.it

