

Dairy processing companies demand large-scale and highly efficient refrigeration systems.



A Dairy processing company in Ireland has recently won an award for Energy Efficiency at the NIEA Sustainable Ireland Awards following a 14 month programme of upgrades to their utility equipment.

As part of the programme, Hy-Save Liquid Pressure Amplification (LPA[®]) pumps were designed into the refrigeration system at the site in Northern Ireland. This has led to much needed increases in system efficiency along with significant reductions in energy consumption.

Following rapid expansion and associated increases in demand for cooling, the refrigeration system at the site was operating at full capacity during summer. As a result, unnecessary strain was being placed on system components and valuable energy being wasted.

With LPA[®] now installed, the systems evaporators now operate around 22%* more efficiently. Year-round benefits of Hy-Save LPA can now be seen with a much needed boost to cooling capacity in summer coupled with even better energy savings during the cooler months.

Following a period of independent energy monitoring by the energy supplier, projected annual cost savings as result of the LPA system have been placed at around 206,000kWh**

Hy-Save[®] LPA 1984 – 2009: 25 years of genuine energy savings!

Hy-Save's low-power, low maintenance liquid refrigerant pumps are designed to increase system efficiency and compressor service life. They can be incorporated into new refrigeration systems or retro-fitted into existing systems using our patented designs and control systems. Please visit www.hysave.co.uk for further information.

All-year round benefits of the Hy-Save LPA[®] system at a dairy process plant

Extra refrigeration capacity in summer months

High annual energy savings

Reductions in CO₂ emissions

Minimal installation downtimes

Typical payback period of 18 months