

Tesco: The worlds third largest supermarket retailer



UK based supermarket retail giant Tesco has lead by example in recent years when it comes to saving energy and reducing CO₂ emissions from their retail stores. In the period from 2000 to 2009 Tesco UK Carbon Dioxide emissions per ft² of floor space have halved.*

In trials of the HY-SAVE[®] Liquid Pressure Amplification (LPA) system at a Tesco store in Ireland, independent energy consultants saw the amount of energy consumed by the refrigeration plant reduce by 24%.

Previously at the store, condensing temperatures had to be kept unnecessarily high at around 32°C to combat system flash gas and to keep the stores evaporators operating efficiently. Since LPA pumps were installed in the system's liquid line, condensing temperatures have been reduced to 20°C whilst delivering vapour-free refrigerant to the stores display cabinets and cold rooms maintaining peak efficiency.

"In trials of the Hy-Save pumps , we saw a reduction in energy use of 24% and are currently considering further tests at a new store."

Michael McNerny C Eng FCIBSE (Energy Manager Tesco Ireland)

HY-SAVE[®] LPA 1984 – 2009. 25 years of genuine energy savings!

HY-SAVE's low-power, maintenance-free, 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 LPA Free Cooling control systems. Please visit www.hysave.com for further information.

*Tesco Corporate Responsibility Report 2009

Significant store energy savings through installation of an LPA[®] system

Reduction in supermarket CO₂ emissions in line with Tesco reduction targets

Improvements in cooling capacity

Reductions in system flash gas leading to gains in system efficiency

Typical payback periods of around 18 months