

Daylesford Organic Farm



DAYLESFORD fit DK's first UK CO2 Heat Recovery System

When it comes to CO2 heat recovery the UK is lagging behind Europe where over 800 of the DK CO2 systems have been installed over the last few years.

The Daylesford system has been fitted in at the "Black Barn Kitchen" on the Daylesford Organic Farm Estate, where the sauces and ready meals are hand produced.

Recovering the heat from the newly installed CO2 refrigeration pack the DK system is a compact 750 litre tank with 4 internal CO2 heat exchangers. The heat exchangers recover **27 kW of free heat** from the refrigeration pack per hour. This mean that the recovered heat can produce over 500 litres of hot water per hour.

Daylesford selected the DK system because it is the only internal heat exchanger system that is capable of handling the pressures created by a CO2 system. The DK internal exchangers allow for maximum heat transfer and their twin wall design conforms to regulation EN1717 which allows them to be used for potable water.



During the year the system will reduce Daylesford's energy demand by over **80,000 kWh** producing **1.7 million litres** of FREE hot water

The annual fuel saving at today energy cap will be £6.800. But perhaps more importantly for an environmentally conscious company it will **save sending over 16.7 tonnes** of carbon into the atmosphere every year.

