

DEARNSDALE FRUIT COMPANY



HOT SHOWERS FROM A NEW COLDROOM

When you have 600 staff and on site accommodation that can add up to a lot of hot showers. 18,000 litres of hot water even if only 2/3rds of the staff take a 3 minute shower.

Dearnsdale Fruit decided to install a 3000 litre insulated tank fitted with five internal heat exchangers with a recovery capacity of 90kW capable of producing 1800 litres of hot water per hour. In addition to the water for the staff facilities the hot water will be used in the pack house giving an expected daily heat recovery of 870kWh.

The installer tested the equipment and reported that "even with the plant running at 10% and the tank without its insulation fitted that the water temperature reached 46°C"
Scott Price - Spiral Cool Limited



The energy saved providing hot water for the sites 9 month operating cycle is over **230 Megawatts per year**

The annual fuel saving at the current Business Energy Cap is over **£19,000 per annum**. But perhaps more importantly for an environmentally conscious company it will save sending over **48 tonnes of carbon dioxide** into the atmosphere every year. That is the equivalent of planting **5,500 trees** on 11 acres of their fields

Source: UK native broadleaf tree is estimated to take up 1 tonne of carbon dioxide during its full lifetime (approximately 100 years) - Grantham Institute—an institute of the Imperial College London

