

BURGER MANUFACTURING COMPANY



Burger Manufacturing Company saves the equivalent of planting 800 trees

Everyone knows that trees are great for the planet consuming the green house gas carbon dioxide. The Burger Manufacturing Company decided that rather than planting 1.6 acres of trees the better way to help was not to produce the carbon dioxide in the first place. They installed three DK Heat Recovery shell and tube heat exchangers above each of the Bitzer refrigeration plants. The exchangers use the waste heat produced by the refrigeration plant to supply hot water to an existing tank saving the electricity normally used to heat the water and the resulting carbon dioxide that would have been released.

Each exchanger is capable of recovering 20kW per hour which can produce 400 litres of free hot water. Since installing the exchangers the company has already seen a 0.6 Megawatt drop in weekly electric consumption. The system is sized to cope with the increased demand the company is expecting from the success of its products. The more products they produce the greater will be the saving both in cost to the company and the environment



The energy saved providing hot water to make the delicious Aberdeen Angus burgers is over **31 Megawatts per year**

The annual fuel saving will give a payback of approximately two years. But perhaps more importantly for an environmentally conscious company it will **save sending over 8,000 kgs of carbon** into the atmosphere every year.

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