

*Clayton Steam Generators now operate at one of Europe's largest science and technology parks where ground breaking research and manufacture is being carried out.*

Discovery Park in Sandwich, Kent is where Pfizer's most important lifesaving and life changing medicines were developed and is the home of Pfizer's unique solid and liquid dose pilot plant production and manufacturing.



The site includes a wide variety of facilities such as laboratories, incubator space, specialist manufacturing, R&D facilities as well as warehouse and commercial office space.

It is because of the diverse range of process that are conducted at Discovery Park that the Clayton Steam Generators were chosen by Pfizer to serve the entire facility.



The manufacturing and research facilities that require steam at the park operate at



widely varying rates throughout the day and night. The steam requirement therefore fluctuates from low to high levels and can also be required suddenly to operate large autoclaves or other fast acting steam using machinery.

No boiler can follow peaks and troughs better than a Clayton Steam Generator. Unlike a firetube type boiler, for example, the Clayton Steam Generator will not lose pressure when it is delivering the maximum output and there is no water level that can drop during periods of high demand.

The Clayton Steam Generator will also ramp up and down as fast as the heat can be increased and decreased and will provide maximum output continuously, when required, without faltering.

This major benefit is due to the unique helical coil water tube

that is the heart of the Clayton design.

The feedwater to be converted into steam is pumped through the coil from the top to the bottom and is heated uniformly as it travels downwards. Water goes in one end and steam comes out of the other while the speed of the feed pump - as well as the heat input rate - are accurately modulated so that the output can be varied as necessary. The Clayton Steam Generator is an automatic, responsive and powerful steam making machine.

Two high efficiency Clayton Steam Generators Model EG-404-2 were provided along with the feedwater supply system, chemical treatment plant, chimneys and main control centre.

The entire steam facility was designed, installed and commissioned by Clayton Steam Systems to comply with the strict technical requirement of Pfizer Ltd and to meet their demanding schedule.