CLAYTON STEAM GENERATORS AT Q8OILS

The Q8Oils blending plant in Antwerp, has been using High Efficiency Clayton Steam Generators since 2001.

In current steam requirement is met by two Clayton 550/3G generators, which supply high quality steam to essential heating processes in blending and storage in different parts of the plant.

The Antwerp blending plant is part of the lubricants division of Kuwait Petroleum International and supplies the worldwide industry with over 600 grades of finished lubricants, base oils, process oils, additives and waxes. Finished lubricants are mainly used as automotive (motor & marine oils), hydraulic, transmission, gear box, turbine and industrial oils. Find users are situated in all possible sectors of the industry, from original manufacturers in the automotive sector to special applications in all parts of industry such as paper mills and metal rolling mills.

Steam is a vital part of the manufacturing process by means of heating. It is used in various stages of the blending process and it is used to maintain correct temperatures in the blending and storage tanks. The Clayton steam system supplies 7300 kg/h at a pressure of 7 bar.

The high-powered Clayton Steam generator is the world’s most compact, efficient, responsive and safest means of producing high quality steam.

The reason for the high efficiency and rapid response of the Clayton Steam Generator is due to the once through, forced flow, helical coil design. To produce steam in a Clayton Steam Generator is a positive displacement diaphragm pump forces water through a single continuous coil, which is heated by means of a gas or oil fired burner (or a combination as used by Q8). A mechanical separator at the exit of the coil is then used to effectively separate the liquid and vapor to provide high quality steam which is at least 99.5% dry saturated.

The gases from the burner pass upwards through the coil and the water being heated travels in the opposite direction in a counter flow pattern which leads to optimum heat transfer. The Clayton Steam Generator is ideal for any steam application in all industries and has been manufactured for over 80 years.

Safety has also been a major factor, which has contributed to the success of the Clayton Steam Generator. Due to the relatively small amount of water contained in the steam generator it is not possible to have a steam explosion. At Q8Oils the Clayton Steam Generators operate fully automatically in an unmanned bodehouze.

Eric Vanderheyden, who is engineering manager at Q8Oils Blending Plant Antwerp, said: “We rely on the Clayton Steam Generator for the total production of the plant. The high efficiency, easy and safe operation and the rapid response are ideal for coping with our varying steam demand.”

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