

# British hospital laundry relies on steady supply of steam

CITY OF INDUSTRY, Calif. — Steam generators now supply the busy Addenbrooke's NHS Trust laundry, where 4.5 million pieces of linen are washed every year. Two energy-efficient Clayton generators have been installed at the Trust's Fulbourn Hospital in Cambridge, England.

Each generator is capable of producing nearly 4 metric tons of steam per hour and designed to operate unattended. Fuel to fire, the boilers can be either oil or natural gas.

Because of Clayton's forced-circulation monotube coil concept, it isn't necessary to contain large volumes of water. Advantages include lower operational costs and fast response time.

When the steam generator is in stand-by mode and completely cold, start-up within approximately five minutes is possible, the company says.

Its low water-storage requirement eliminates the possibility of a steam explosion, Clayton adds.

The laundry is vital to Addenbrooke's NHS Trust, a leading international center for biomedical research and medical education. As well as being the local district hospital for 480,000 people, the Fulbourn Hospital is also being developed as a major center for treatment and research on a European scale.



(Photo: Clayton Industries)

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Malcolm Creek, Fulbourn Hospital

“The laundry is one of the essential back-up services which are needed to support the medical work of the Trust,” says Malcolm Creek, estates manager at Fulbourn Hospital. “It is important, therefore, to have a reliable source of steam to keep the laundry running.”

Two generator models EOG-254 are positioned side by side, and the feedwater treatment equipment is mounted on a skid base, which was preassembled as a packaged unit for ease of installation.

The feedwater equipment includes a hot well, chemical injection system, and transfer pumps

with interconnected piping, valves and fittings. The hot well provides feedwater for the steam generator and acts as a reservoir for returned condensate.

The hot well is a partial deaerator capable of removing most of the oxygen, which is a major cause of corrosion in feedwater, Clayton says. The hot well is steam-heated to maintain the temperature at around 95 C (203 F). **ALN**



World Headquarters • 17477 Hurley Street • City of Industry, CA 91744-5106

800.423.4585 tel • 626.435.0180 fax • email: sales@claytonindustries.com • www.claytonindustries.com