



HOSPITAL



BENEFITS

- ▶ £51,000/year in energy savings
- ▶ Short payback of under 1 year
- ▶ 10 year no-fail guarantee
- ▶ Eliminate cost of replacing failed traps
- ▶ Minimised maintenance effort and downtime

GEM® Trap Retrofit at Hospital

The Hospital has reduced its energy consumption by a staggering £51,000 per annum following the installation of the patented GEM venturi orifice steam traps. Thermal Energy International (TEI) has installed 147 GEM steam traps throughout the RNOH site in Stanmore, providing the hospital with a seven month payback in gas savings alone.

Steam is used by the RNOH for a wide range of services, including the various plant rooms' heating and hot water heat exchangers, space heating, AHU batteries and humidification. Prior to the installation of the GEM Traps, the hospital found that each year an average of 31% of its steam traps were failing open, thereby wasting valuable steam, or jamming shut, risking water hammer and system failure.

Following a full site survey of the existing steam trapping, TEI arranged for the installation of the steam traps during the summer, with installation being carried out without disruption to site steam services. Not only has the hospital achieved savings in gas, it has also reduced costs on replacement steam traps and maintenance.

“Over a 10 year period the hospital will save £510,000 on gas alone based on present costs,” said the Energy Manager at the hospital. ***“In addition, as the GEM Traps do not fail, we will save money on downtime and replacement costs. A further added bonus is that the traps only have to be cleaned once a year which is brilliant.”***

- Engineer Manager

