



savings update

BAA, Glasgow Airport

In early '96, Glasgow Airport's newest plant room, serving the main concourse, was converted to GEM Steam Traps. The changeover of 33 traps took just 15 minutes per trap as the GEM traps were more compact than the original float traps. The removed float traps were found to be clogged with deposits and some were totally jammed and inoperative. In contrast, the GEM Traps were inspected during the summer shut down and found to be 'as clean as a whistle'. The venturi orifice in the GEM Trap is self cleaning, which is why BAA staff are very happy with the **trouble free performance** of GEM Traps. This is a welcome change to float traps which constantly failed and alarmed the building management system.

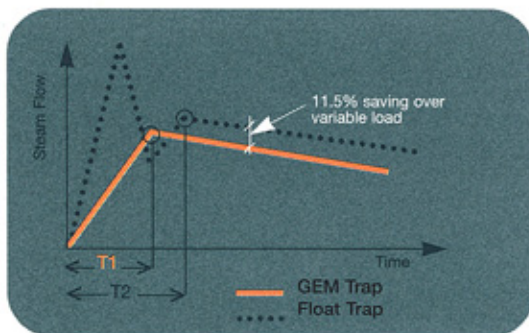


Rosyth Royal Dockyard

In the winter of '96/'97 Babcock Rosyth Defence Ltd. of Rosyth Royal Naval Dockyard and 'NIFES', the energy consultants, conducted a trial on GEM Traps. The radiant heaters and unit heaters which heat the 'Pipe Shop' were changed over to GEM Traps. Steam flow was recorded before and after the changeover of the system's 60 traps by means of an orifice meter on the main steam supply to the building. After changeover, Rosyth's engineers reported that the **plume of live steam disappeared** from the condensate receiver's vent pipe. Although the heating system's performance was unaltered after changeover, the meter failed to read any flow as the steam consumption had been cut so dramatically. 'NIFES' reported average **steam savings of 55%** so the Dockyard is now progressively changing over to GEM Traps.



A major manufacturing firm has conducted their own in house trial by metering steam flow to a large oven. The results proved an **11.5% steam saving** compared to fully functional float traps. Amazingly the oven warmed up quicker with GEM Traps than with float traps saving on production time. Also, as the steam flow gradually increased, the **thermal shock on the plant was reduced**. An order for 300 GEM Traps was immediately placed and within two months over 70 ovens were converted.



Queens Hospital Burton

In five months, Burton Upon Trent Hospital's engineers have saved over 200GJ by installing GEM Traps on a small plantroom. This equates to over **13.5% saving in energy** and the GEM Traps paid for themselves in **under six months**. Furthermore, savings in maintenance and trap testing/replacement have not been included within these calculations, so the actual payback period is much less than six months. The hospital is now planning to convert all their plantrooms to GEM Traps.

