



## Spirax Sarco delivers energy saving boiler house design for Macclesfield District Hospital

**A state-of-the-art boiler house designed by Spirax Sarco and installed by Nationwide Thermal Engineering Ltd., has cut energy bills by 20% at Macclesfield District Hospital. “We’re still in the process of working out the exact savings, but it’s at least 20% and could easily be closer to 25%,” says Paul Daniel, Engineering Manager at the hospital, which is part of East Cheshire NHS Trust.**

The boiler project cost around £350,000. The hospital now operates two gas-fired boilers, each rated at 1500kg/h. Spirax Sarco supplied all the associated equipment, including the latest energy-saving controls and systems. For example, automatic TDS (total dissolved solids) controls save hot water and energy by ensuring that boiler blowdown does not take place more often than necessary. Meanwhile the comprehensive recovery of heat from condensate and flash steam also helps optimise the energy efficiency of the overall system.

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Mr. Daniel says the new boiler system is also saving money by reducing the need for maintenance. “It came on in December 2007 but we left the old system running in parallel until January in case there was a problem. But to be honest we’ve never had a problem with it. It’s marvellous. In

contrast, the old, oil-fired system sometimes had us calling out the engineers twice a week.”

The previous boiler house was located on a parcel of land that the Trust had decided to sell off. “We were looking to rationalise the estate,” says Mr. Daniel. “The previous boilers were over 40 years old and ready for replacing, so it made sense. I decided to ask Spirax Sarco to design the new boiler house because I was so impressed with their products and the service they’ve given us over the years. They did a good job. We’re pleased with the design, the ongoing supervision during the project and the back-up ever since.”

In addition to the boiler equipment, Spirax Sarco also helped Macclesfield District Hospital overhaul its domestic hot water supply by replacing three oversized and out-of-date calorifiers with two EasiHeat™ steam-to-hot water systems. EasiHeat systems supply hot water on demand and are often used to eliminate hot water storage entirely. In this case however, the hospital decided to retain a pair of small buffer vessels. Even so, the new installation is only one quarter of the size of the old calorifiers.

According to Mr. Daniel, the biggest advantage is the tight temperature control that an EasiHeat system provides: “We can set it to the required temperature and it won’t fluctuate by more than  $\pm 0.5^{\circ}\text{C}$ .”

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