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Clean Bill Of Health For Energy-Conscious Hospital

An energy-conscious Essex hospital is cashing in on free hot water thanks to a Calorex heat recovery system.

Installed last summer as part of an on-going strategy to improve energy-efficiency at the busy Princess Alexandra Hospital in Harlow, three AW Calorex heat recovery units now capture previously wasted hot air from the hospital's boiler room.

The clever Calorex units recycle the energy to supply free hot water to the main building of the 400 bed hospital and for the busy maternity unit that sees an average 3,000 births annually.

"The Calorex machines are part of an overall strategy to improve energy efficiency at the hospital by cutting bills and reducing carbon emissions," explained Bill Dickson, the hospital's energy officer.

"It is a win, win situation because we have improved conditions in the boiler room which is noticeably cooler at the same time helping to cut energy bills."

The AW1534 is one of a range of floor-standing heat pumps. Unlike other water heating systems, a Calorex heat pump is capable of delivering up to five times more energy than it consumes.

Calorex heat pumps are simple to install, require little maintenance and alleviate the need for fuel storage tanks and flues that are normally associated with fossil fuel heating systems.

With lower CO₂ emissions than boilers, heat pump technology is the preferred heating choice of many government bodies and professional associations due to their low impact on the environment.

Heat pump features include:

- Range of capacities from 6kW to 59kW
- R134A ozone friendly refrigerant ensures reliable operation up to 70 deg C
- Fully weatherproof polyester coated cabinet
- Digital water thermostat as standard fitment
- Seamless 90/10 cupro-nickel heat exchanger allows the units to be used in direct systems for potable water
- Centrifugal fans fitted as standard – allows ducting from plant rooms or distribution of cold air for space cooling.

For a free site survey and information about the whole Calorex range contact the sales team on 01621 826111 or log on to www.calorex.com.

Generic hospital photo caption: *A Calorex heat pump can recycle heat and turn it into free hot water for switched on hospitals.*

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