

Case Study

Stover Nature Interpretation Centre

'Lake system used to heat and cool visitor centre'

The facts:

Property Type:

Timber framed new build

Product supplied:

24kW Kensa Compact Heat Pump with twin compressors

Application:

100% space heating and cooling within the building

Installation:

Four Kensa closed loop pond mats floated out and sunk to the bottom of the lake.

Cost Savings:

Significant savings over oil heating

Fuel Displaced:

Oil

CO₂ Reduction :

46% saving over oil (based on data from the DTI and BRE)



Built by sailor James Templar in 1765, Stover Country Park is now operated by Devon County Council as a nature reserve focusing on the dragonfly and wildfowl population in this UK Site Of Special Scientific Interest. The new Visitor and Interpretation Centre was opened in July 2000, and offers classroom facilities for school groups as well as high quality displays interpreting the wealth of plants and wildlife found in the park. The visitor centre has been built with sustainability at

its heart and as such is heated and cooled by renewable geothermal energy from the nearby 10 hectares man made lake.

A 24 kW geothermal heat pump passes water through a closed-loop of plastic pipe sunk in the middle of the lake to absorb heat in winter and to reject heat from the building in summer. Up to three quarters of the heat generated for the installed underfloor heating is free of charge and is renewable. This means as well as low running costs the system has lower CO₂ emissions than traditional fossil fuels and no



gas/oil tank is required. Also no regular servicing is required and the system has a longer design life than traditional boilers.



£Grants

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 pond mat and heat pump
 installation

