

Case Study

Charlestown School, Cornwall

'School requirement to reduce heating and cooling costs'

The facts:

Property Type:
Existing School

Product supplied:
80kW Kensa Compact
Heat Pump system

Application:
100% space heating and
cooling within the
property, using a ducted
air system to distribute.

Installation:
10 boreholes drilled by a
specialist driller under
the playing field.

Cost Savings:
Heating/cooling costs
have been reduced by
75% over the original
system.



The main driving force behind the decision to install a heat pump at this school was the need to reduce costs of the heating and air conditioning system. Charlestown's school was built in the 1960's and is next to a railway line. As a result of the associated noise and pollution, the windows in the building had to remain permanently closed and the air-conditioning had to operate all year round leading to high running costs.



The solution was to install a n 80 kW ground source heating system which could provide cooling in the summer and heating in the winter. The heating/cooling is distributed into the school via an air ducted system. The ground source heat pumps installed are connected to 10 boreholes which are placed within the adjacent playing fields.

The overall heating costs have been reduced by 75%. Like all ground source heat pump installations, there are no fume or pollution emissions on site. Installation **and** running costs are lower than conventional separate heating and air conditioning systems.



Borehole pipe awaiting to be inserted



Ducted air system

£Grants

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