

Case Study

Executive Home, 12kW, Inverness



The facts:

Property Type:
New Build, timber frame

Property size:
310 m²

Product supplied:
12kW Kensa Compact
Heat Pump with twin
compressor

Application:
100% space heating
within the property,
complementing
underfloor heating

Installation:
Four x 75m vertical,
closed loop ground
arrays

Cost Savings:
Significant savings
compared with oil.

Fuel Displaced:
Oil

CO₂ Reduction :
57% saving over oil
(based on data from the
DTI and BRE)

Sustainable ground source heating in coldest part of UK

The timber frame, new build executive retreat has sustainability at the heart of it's design; sourcing timber for construction from local woodland and using heat energy sourced from the ground for heating the property.

Kensa's award winning engineers proposed a 12kW twin compressor Compact ground source heat pump to deliver 100% space heating with ground energy collected via four 75m vertical, closed loop ground arrays.

The heat pump system perfectly complements underfloor heating; pipes buried in thick concrete screed to deliver desirable room heating and low return temperatures to the heat pump for energy efficiency.



£Grants

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