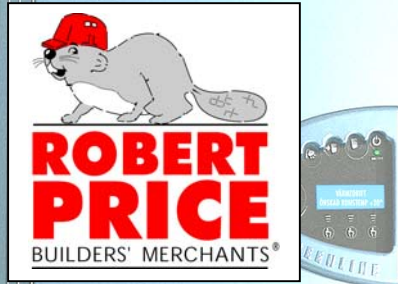


HEAT PUMPS



Imagine saving up to 70% on the running costs of your oil or LPG heating system but having your home constantly warm and comfortable.

Ice Energy Heat Pumps use renewable energy, require no regular maintenance and have no local greenhouse emissions and can completely alter the way you live in and enjoy your home.

The pump provides constant warmth by heating the fabric of the building and then simply topping up any heat loss. Using an intelligent control system that monitors 7 different sensors inside and outside the home it 'modulates' its own output into the house according to the varying temperatures it encounters.

How do they work?

At one metre depth the average soil temperature in the UK remains consistently between 10 and 13 degrees. The 'ground loop' is a pipe that is buried in the garden at this depth and filled with a mixture of water and food friendly glycol. The mixture is at a low temperature and is gently warmed by the surrounding soil as it is pumped through the pipe.

The heat pump only requires an increase in the temperature of the water mix of just a few degrees. It is then put through a process that involves a series of heat exchangers and a compressor where the heat is concentrated so that temperatures of 65 degrees are achieved. This then feeds the central heating radiators or under floor heating pipes and the domestic hot water tank.

