



affordable energy

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Heat pumps at a glance

- Run on electricity, so there's no need to pay for gas, oil or solid fuels to heat your home
- Heating your home with a heat pump is much more efficient than using electric radiators
- There are two main types, air source and ground source
- Air source heat pump systems are compact and require no storage space for fuel
- Ground source require a bore hole or buried ground loop.
- Heat pump systems can supply as much as 4-5kW of heat output for just 1kW of energy input
- A heat pump could be for you if you are looking to replace your coal or electric heating system

£ and CO₂

The actual pounds and pence savings and carbon dioxide savings you will get will depend on many things about your home and lifestyle:

- What you install: ground source heat pumps are more efficient but costlier to install
- How hot you have your house in Winter
- How long you have your heating on for
- Which fuel you use and how much you pay for it

Installed costs for air source heat pumps are typically £7,000 - £10,000 and for a semi-detached home currently heated by electricity, oil or LPG can save between £420-£630 a year.

Installed costs for ground source heat pumps are typically £6,000 - £12,000 and for a semi-detached home currently heated by electricity, oil or LPG can save between £570-£730 a year.

Air source heat pumps

An air source heat pump extracts heat from the outside air in the same way that a fridge extracts heat from its inside. It can extract heat from the air even when the outside temperature is as low as minus 15° C. Heat is exchanged from the air to the heat pump via a liquid medium and converted into useable energy for water or space heating.



This heat can then be used to warm water for radiators or underfloor heating systems (air to water heat pump), or to warm the air in your home (air to air heat pump). Air to water heat pumps heat water to a lower temperature than a standard boiler system would so they are more suitable for underfloor heating systems than radiator systems.

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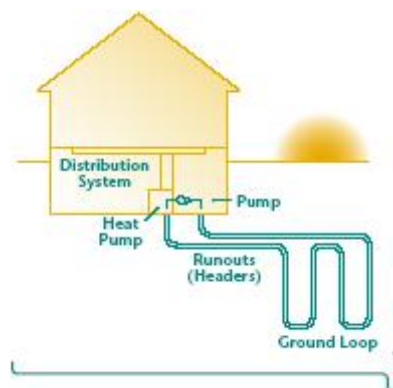
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Ground source heat pumps

Instead of an air source heat pump you can install a ground source heat pump that extracts heat from the ground.

They are more efficient and will give greater savings on your energy bills but they cost more to install

Coils of pipes are buried 1.5 m - 2m below the ground horizontally or vertically. Heat is exchanged from the soil to the heat pump via a liquid medium and converted into useable energy for heating water or space.



A minimum of 80m square of land is required for the coil installation.