

GEO THERMAL HEAT PUMPS

The most efficient, eco-friendly heating available.



Geothermal Heat Pump Technology

Geothermal (ground-source) heat pumps rely on the fact that the earth stays warm throughout the winter. This large amount of low-temperature heat is extracted with either a long pipe buried two metres below the surface or directly from well water, then converted in the heat pump into a small amount of high-temperature heat suitable for heating a house. This heat transfers to the water that travels through the central heating system, warming the home.

Two metres below the surface, the earth maintains a constant temperature, which means constant performance in any weather. Because the pipes are hidden two metres underground, the system is visually unobtrusive and the land above the pipes can be used. Water is used in the ground loop pipes (which have a 50-year life expectancy), so there is no danger of refrigerants leaking into the ground.

- Low running costs; low maintenance
- No defrost mode means they never have to stop heating
- No visual impact on outside of house; silent operation
- Renewable energy available 24/7 from the greatest solar collector—the earth!
- Suitable for radiators and underfloor systems