

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

Available Models

The Geo-Water MTD2 series is a medium temperature heat pump that heats the water for the central heating system up to 55°C. It is suitable for underfloor heating, domestic hot water and swimming pools.

PRODUCT CODE	STYLE	OUTPUT
HPBWR41MMTDS	DL HP Geo-Water BWR MTD2 0041 1P	12kW
HPBWR61TMTD	DL HP Geo-Water BWR MTD2 0061 3P	16kW
HPBWR91MTD	DL HP Geo-Water BWR MTD2 0091 3P	23kW
HPBWR101TMTD	DL HP Geo-Water BWR MTD2 0101 3P	26kW
HPBWR121TMTD	DL HP Geo-Water BWR MTD2 0121 3P	33kW

Additional sizes are available via indent.
Contact us for further details.



Central Heating New Zealand is certified with the International Ground Source Heat Pump Association for design and installation and has more than 60 geothermal heating systems installed and operated across New Zealand.

For more information, please request our geothermal heating guide.



The latest model of DeLonghi geothermal heat pump

Specification Details

- Medium temperature (55°C) brine to water reversible heat pump
- Nadi Room Controller
- On board or remote control
- Scroll compressor
- Source and plant pump included
- Can control 3-way valve for DHW production
- COP 4.5
- R410A refrigerant
- Available as a water-to-water version for 'pump and dump'. Price on application.
- System specifying advisable with all geothermal heat pumps

