



LIVE LIKE IT'S
SUMMER
ALL YEAR ROUND



Central Heating
NEW ZEALAND



Warm Water Central Heating systems are ...

QUIET
SAFE
AUTOMATED
EFFICIENT

ECONOMICAL
CONTROLLABLE
SPACE UTILISING
SUSTAINABLE

FUTURE-PROOF YOUR HOME

Why have Warm Water Central Heating installed in your home?

- New Zealand's climate requires a highly efficient, economical, environmentally friendly and easy to control heating system.
- Water transfers energy at a much higher rate than air and radiant heat is the most comfortable for the human body.
- You are not fixed into using one heat source forever. The boilers can be changed out to accommodate changes in the availability or cost of energy in the future.
- The systems use clean heat. Diesel is clean burning, (despite perceptions), gas has clean emissions and wood pellets are carbon neutral as they are a renewable resource.
- The systems far exceed all New Zealand Clean Air guidelines.
- Because no forced air movement is involved, there are no draughts, hot and cold spots or noisy fans to contend with.
- NZ homes are extremely cold inside by international standards through the lack of decent heating systems. The World Health Organisation recommends a temperature of 16 degrees or more!
- A healthy home is a warm home. Keep your family well by living in a warm, dry house.
- When the house is heated completely, you will find that the whole house gets used by the family.
- The whole house can be warm within minutes of a radiator system being turned on regardless of how cold it is outside.
- Each radiator and under floor system can be thermostatically controlled or turned off in rooms that are not being used. The system is fully programmable and can be zoned to accommodate the usage of different areas of the house. This equates to low running costs.
- The systems are totally silent and are safe for children, the elderly and people with respiratory problems. Because there is no forced air flow there is less movement of dust and pollen.
- AND Warm Water Central Heating is totally comfortable & luxurious... coming home is a delight!



LIVE IN ABSOLUTE WARMTH & COMFORT

What is Warm Water Central Heating?

Heating systems that use water to distribute heat evenly to each room in the house. Water transfers energy at a much higher rate than air, making warm water central heating systems very efficient and effective.

Installed in new and established homes

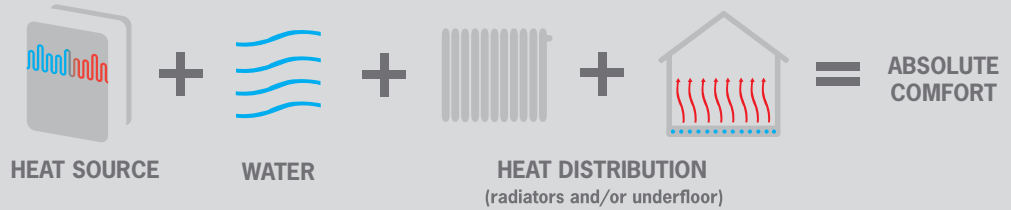
Sick of living in a cold house? Warm up your existing home with a central heating system. If you are building, plan for warm water central heating at the design stage and choose the best system to suit your home and lifestyle.

How does it work?

The heat source (a gas, diesel or wood pellet boiler or a hot water heat pump) is where the water is heated. The heat distribution system is either a network of looped pipes under the floor or in the wall, or, wall-mounted water radiators.

The heat source pumps heated water through the underfloor pipes or into the radiators (or both). The heat is released gently into the home and can be programmed using automated controllers.

Warm Water Central Heating



Heat Sources

1. High Efficiency Combusting Boilers

Boilers that burn a fuel to transfer energy into water.

Firebird Diesel Boilers The most popular heat source in the South Island and rural New Zealand due to having the most reasonable capital cost and ongoing running costs. The latest condensing range can reduce bills by 20% over standard versions. Biodiesel versions are available.

Ariston Gas Boilers Small, light and technologically advanced. Great for areas with reticulated gas or small & thermally efficient houses. Uses natural gas or LPG. Condensing and standard efficiency system and combi boilers are available. These are the heat source of choice in the North Island.

ARISTON GAS BOILER



Log Boilers Effecta Wood Gasification Boilers are the most advanced way to burn logs. Secondary air is introduced to the lower part of the combustion chamber and incinerates the ash at super high temperatures, producing minimal waste ash and incredible efficiency.

Woodpecker Wood Pellet Boilers Burning biomass wood pellets makes these boilers very eco-friendly. Fully automated for convenience, these boilers use a 'home grown' renewable fuel source.

2. Heat Pumps

Electric appliances that use a refrigeration cycle to transfer energy into a heating system.

Delonghi Hot Water Heat Pumps (air to water) With full floating (variable pump & fan) technology, these systems have a high coefficient of performance even when there is a low outside temperature.

Delonghi Geothermal (Ground Source) Heat Pumps (ground to water) The heat source of the future! Uses the earth's natural energy to heat and cool a home. Extremely efficient and environmentally friendly.

PLEASE NOTE: All heat sources have different running costs. These depend upon fuel prices in each area. Different central heating systems are better suited to some heat sources than others.

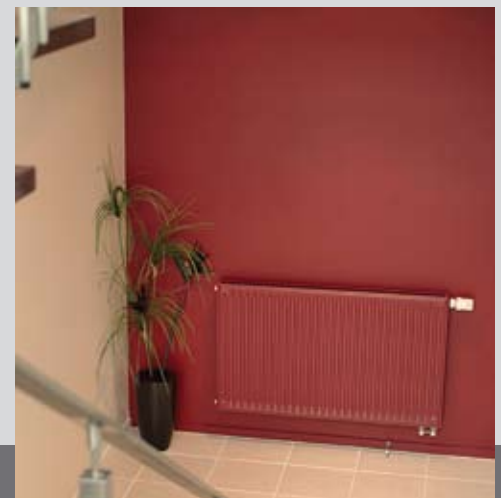
DELONGHI GEOTHERMAL HEAT PUMP



Heat Distribution

There are a number of ways to transfer the heat through your home with central heating. The best option for your home depends upon your lifestyle, budget and the heat source that you are using.

Delonghi Radiators These are silent, controllable, quick to heat up and well suited to New Zealand's changeable weather. They are a safe, stylish and healthy way to heat a home as there are no forced air draughts and they are not too hot to touch. Normally radiators require high temperatures that can only



currently be achieved with combusting boilers, however hot water heat pumps can be used in some cases.

Radiators can be coloured to match your interior decor. They are also available in a variety of designer styles that can be imported from Italy. Towel rails are a popular radiator to use in bathroom and laundry areas.

Underfloor Heating Recognised as the most luxurious & comfortable heat for the human body because it warms your feet and is cooler up near your head. Radiant under floor heating uses lower temperature water and can be heated by any heat source.

Radiator & Underfloor Heating Combination For optimum heating effectiveness, some homes employ a radiator & underfloor heating system. Radiators work well in bedrooms, bathrooms and hall ways whereas underfloor is best utilised in the kitchen and living areas where people spend most of their time.



Example of a warm water central heating system in a home



System Extras

Domestic Hot Water Utilise the efficiency of your boiler system by including a cylinder and heating all of your domestic hot water from the same system.

Solar Heating Solar is generally only considered for heating a domestic hot water cylinder. Heating your house with solar is possible however it requires extensive set-up costs.

Pool/Spa Heating It is possible to heat your spa and swimming pool from the central heating system. This helps to spread the capital cost of purchasing the heat source and makes heating your pool more convenient.

The Future of Heating in New Zealand

Central Heating New Zealand Ltd continually researches & experiments with new advances in heating and introduces new products to the market, so you can be sure that we are offering the best heating systems available. Being environmentally conscious and energy efficient is essential for sustainable heating solutions for the future.

All fuels have different advantages as well as differing levels of supply and availability in each region. Central Heating New Zealand believes that it is environmentally and morally sound to offer all types because not one energy source suits every situation and having options means that the chance of one fuel source running out in the future is lessened.

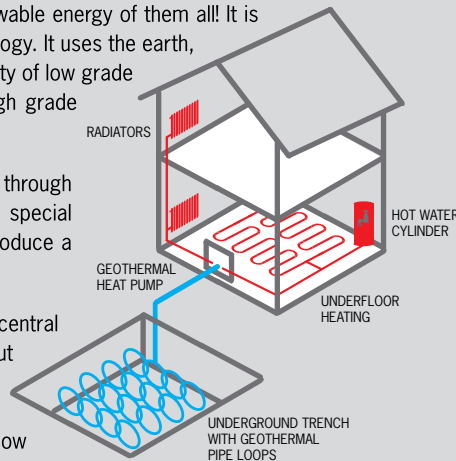
Geothermal Heating

Geothermal or Groundsource heating is the greatest renewable energy of them all! It is one of the most exciting advances in world heating technology. It uses the earth, the world's largest solar collector, to provide a large quantity of low grade heat that is then transferred into a smaller amount of high grade heat suitable for heating houses.

Special water pipes buried in the earth, have liquid pumped through them, transferring the constant ground temperature to a special heatpump which uses refrigeration cycle technology to produce a smaller amount of high grade heat.

This can then be distributed around the house in water or air central heating systems. The systems are electrically powered but can produce as much as 5 units of heat for consuming 1 unit of electricity. The best thing is that this efficiency is constant through all outside air temperatures even well below freezing, and takes advantage of the earth's energy 24 hours of the day! No other renewable energy comes close.

The systems also can cool a dwelling by using the earth as the heat dump, at twice the efficiency of an air to air conditioner (standard heat pump). Currently in the domestic market, these systems are capital intensive, but commercially they are a big part of the future for energy conservation.



Woodpecker Wood Pellet Boilers

The Woodpecker boiler burns biomass wood pellets much the same as a wood pellet fire, but instead of putting the heat into the surrounding air of one room, it transfers the heat into water which can then be pumped around a house or building. It is extremely effective and efficient.

Burning biomass wood pellets is environmentally friendly because wood pellets are renewable resources that are made from wood shavings, chips or sawdust. The Woodpecker produces a minute amount of ash and the flue gas emissions are half the maximum allowed in New Zealand's strict air quality plans.

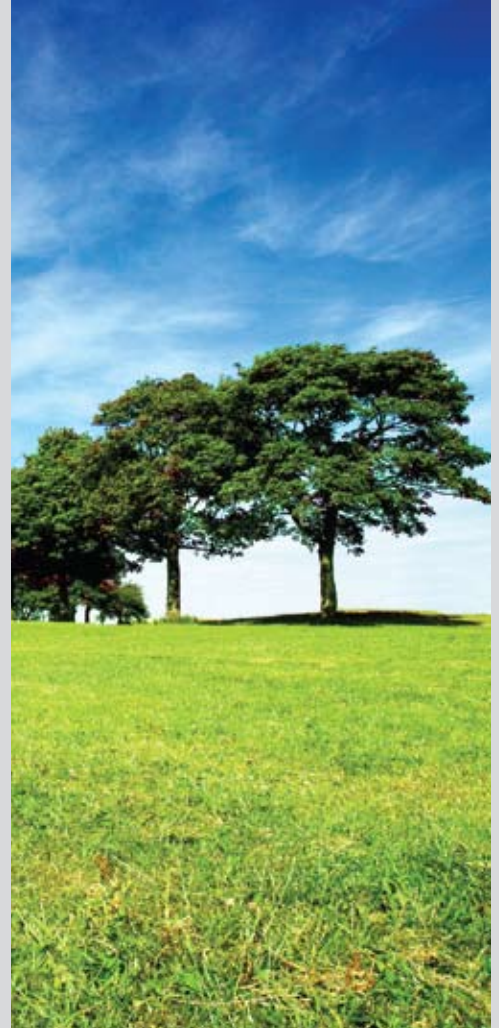
Central heating with wood pellets is growing in popularity due to the rising price of other energy sources and the desire for 'world standard' comfort in new and existing homes. Woodpecker boilers are manufactured in Ireland to strict European standards. The burner is a proven 'state of the art' Swedish unit.



Biodiesel

Firebird standard and condensing boilers are able to run on biodiesel. Biodiesel is made from several waste process products or special crops and is a fuel that has an exciting future in New Zealand. Ask the team at Central Heating New Zealand which biodiesel would be the most appropriate for your home.

New Zealand's energy issues are a major topic of interest at the moment. In the past, we have been used to cheap and plentiful supplies. The increased demand has seen all forms of energy rise in price in the past few years. Using Biodiesel is one way of diversifying our energy usage so as to not rely solely on one source.



Factors to consider when heating your home.

Where do you live? The New Zealand climate changes vastly across the country and heating solutions and home construction types are not appropriate for all regions. Within zones, rural and urban temperatures can vary by as much as 5 degrees.

The design of your house. Some architectural styles can make it harder to heat your home. Homes with large glass windows and high ceilings are harder to heat than homes with less windows and lower ceilings. This is particularly important in the South Island.

Plan ahead. Consider your preferred heating solution at the design stage rather than adding it as an afterthought. You won't regret it! Decent heating systems require components in particular areas for best efficiency and are often compromised if the heating is considered only after the building plans have been finalized.

Consult an expert. Get a heating specialist to design your heating system. Central Heating New Zealand can design an optimized system for your home and assist with approved installers in your area.

Insulation doesn't replace the need for heating. A well insulated home without a heating system is much like a chilly bin. It will stay warm if there is a warm object inside and cold if there is a cold object inside.



PH 0800 357 1233 NOW!



Get your FREE copy of this essential heating guide. Don't build or renovate without it!

Two-thirds of the world use central heating systems

Europeans and Americans have been centrally heating their houses for years. It is now beginning to become popular in New Zealand. Central Heating New Zealand is reducing the cost by doing the job from start to finish. We source the goods from Europe and design the system to suit individual needs, then install and maintain the system. We also distribute central heating products around New Zealand to qualified installers who can set your home up with a superior central heating system.

Is central heating really affordable for the average homeowner? What price is comfort? Our customers are amazed by the warmth of their homes with central heating and can't believe that they lived so long without it. Yes, it is a cheaper start-up cost to have one heater/log burner in the living room and a scattering of electric fan heaters throughout the house, but it isn't an effective way to heat your home. And, with the soaring price of electricity, isn't it wiser to consider alternative fuel sources?

A gas central heating system with radiators in a small 3 bedroom house starts at approximately \$9000 installed. Compare this with one heat pump in the living room (approximately \$4000 installed) and another in the master bedroom (another \$4000 installed). So for \$8000 you can heat 2 rooms, or for \$9000 you can heat your whole house? The choice is obvious!

How much does it cost to run a warm water central heating system? Each house has its own heat loss characteristics. We calculate the heat required to achieve at least 21 degrees in living areas and 17 degrees in bedrooms. We then know the kilowatt demand of the house. We can work out how much it will cost to run on different fuel types.

Want to get central heating in your home? Send us a copy of your house plans and we will do a quote for you free of charge. Don't forget to browse www.centralheating.co.nz to find out more information. Central Heating New Zealand have the skills, products and people to help you. We offer expert technical advice and customer support and import only the highest quality European products. Our team works harder to find the right heating system for your home, budget and lifestyle. Contact our friendly team now!



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"Just a note to personally say thanks for the top job you guys have done re: our central heating system. It made living in our home so much more pleasant. Now that we have shifted, we are both really looking forward to getting our second system installed in our new home. We really appreciated the hard work and effort that has gone into helping us get both central heating systems right for the 2 different homes.

Having lived and worked in the UK, I have experienced the benefits of central heating and am amazed how efficient and cost effective radiators are. That so many of us kiwis are still happy to live in a cold house every winter amazes me. The old 'shut the door' and 'throw on a jersey' is a thing of the past in our home, with central heating we can regulate the temperature to suit us and as a result we are warm and comfortable all the time.

Everything has been done in a thoroughly professional manner, with the whole system explained in a way which made it very easy to understand and use. I have to say I am REALLY impressed with the service from your whole team. I would recommend Central Heating New Zealand to anyone wanting to heat their home."

Steve Hansen and Family