

Underfloor Heating Solutions

Residential

- **HIGHLY EFFECTIVE HEATING**
- **ENERGY EFFICIENT**
- **LOW RUNNING COSTS**
- **ENVIRONMENTALLY FRIENDLY**



HOT WATER HEAT PUMPS LTD

Advancing Water Heat Pump Technology

SINCE 1980

www.waterheating.co.nz





effective

WHY HYDRONIC FLOOR HEATING?

FREEDOM

With traditional forms of heating, temperature variations and draughts can occur, but the underfloor system guarantees an even heat distribution. This gives you the freedom to enjoy a comfortable temperature regardless of where you are in the house.

CONTROL

Separate controls for each zone can be installed to enable you to tailor the water flow for each area to suit an individual room or zone requirement night and day.

HEALTH

Even heat distribution gives you a constant feeling of natural dry warmth from head to toe with no dusty air particles or toxic gas fumes in your environment. By heating the whole house, humidity levels are reduced, lowering the risk of health problems associated with high indoor humidity.

AESTHETICS

Radiant floor heating is hidden from sight so there are no obstacles to furniture placement

SILENCE

Compared to conventional systems, there is no internally generated noise.

COST EFFECTIVE

Saves energy and running costs. Energy saving from 15-40% could be achieved with the "Performance Plus" Heat Pump for your underfloor heating systems.

If you dream about walking barefoot in your home even in winter and you've decided that an underfloor heating system would fit the bill, it's vital to install a top quality heat pump water heater to power your system. Whether you're starting new or upgrading, talk to your supplier about a Performance Plus underfloor heat pump water heater.

With over 30 years of experience in design, construction, application and service, Hot Water Heat Pumps Ltd is a Kiwi-owned company recognised internationally for innovation, quality, technology and reliability. Engineered and built in New Zealand using local and imported parts, the Performance Plus range of underfloor heat pump water heaters is the largest in Australasia. There are 28 standard models specifically designed for running underfloor heating systems and custom made models are also available on request. No matter if your floor area is large or small, or whether you require 5kW or greater than 95kW, we have a Performance Plus underfloor heat pump water heater to meet your requirements.

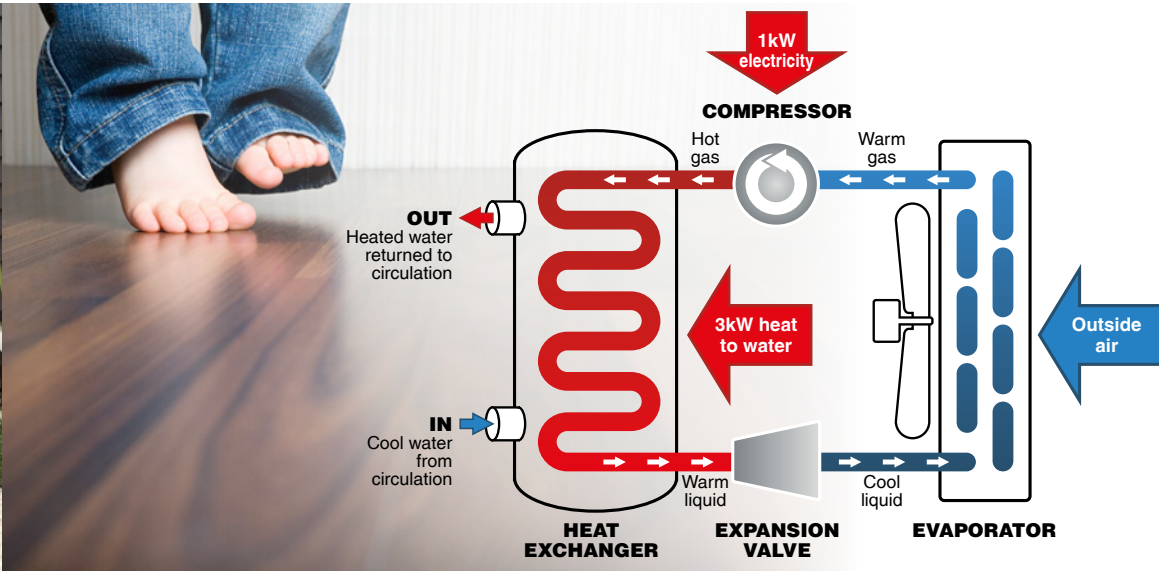


Experience the best in heat pump water heater technology.



HOW DOES A PERFORMANCE PLUS HEAT PUMP WATER HEATER WORK?

A Performance Plus underfloor heat pump water heater uses electricity to operate. It uses the 'free heat' which is extracted from the ambient air, upgraded with a compressor, and then efficiently transferred to the underfloor water circuit. It works in a similar way to a fridge but in reverse. The pump maintains a constant floor surface temperature of 22-26°C by way of natural radiation and convection. It ensures that the pipe work distributes heat to the entire floor area, so there are no cold or hot spots.



EXCEPTIONAL EFFICIENCY

Because of their high efficiency, Performance Plus underfloor heat pump water heaters win hands down over other energy options such as gas and diesel burners and electric elements.

The whole house can be heated continuously during the winter with the heat pump transferring the 'free heat' from the air to the underfloor hydronic circuit using a relatively small amount of energy.

Our Performance Plus Underfloor heat pump water heater technology uses high quality, durable materials to ensure low maintenance and to provide excellent long term value. Heat pump water heaters are extremely energy efficient compared to other forms of heating. The EECA has listed heat pumps in general as one of the most energy efficient forms of heating in New Zealand.





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PERFORMANCE PLUS FEATURES

- Each unit incorporates a high efficiency, hermetically sealed compressor
- Heat exchange coils incorporate inner grooved tubing for better heat transfer
- Generous sized heat exchange coils aid efficient heating in low ambient conditions and help ensure optimal performance
- The refrigerant cooling coils are comprised of epoxy coated aluminium fins on mechanically expanded rifled copper tube for greater efficiency.
- Epoxy coating adds extra protection in corrosive environments such as salt laden sea air
- An active electronic de-frost system is incorporated in every unit to ensure a quick efficient de-ice cycle
- All Performance Plus heat pump water heaters are specifically designed for optimal performance even in freezing conditions, ensuring trouble free all year heating
- All units are made from high grade galvanised steel, polyester powder coated for all weather protection. External fasteners are stainless steel

LOW RUNNING COSTS

Exceptional efficiency means lower running costs - Performance Plus heat pump water heaters are extremely economical in operation. A Performance Plus Underfloor Heat Pump can heat a whole house for an amount similar to what some households might spend to heat one or two rooms. While the initial investment in a heat pump water heater may be more than some alternative heating solutions, the long term savings on energy use are far greater.

Because our units are robust and built to last, they offer a fantastic return on investment. The difference between Hot Water Heat Pumps Ltd and our competitors is that we make sure our authorised dealers take careful note of your requirements and supply the ideal system for your individual needs.

With a Performance Plus underfloor heat pump water heater, you get safe, natural warmth throughout your house for a lot less than you expect!



**Approximate
Running Cost
Comparison**



0800 33 66 33



greener

SUPERIOR CONSTRUCTION

All units and equipment are engineered and built in New Zealand using the world's best components. The heat exchangers are selected in-house by our qualified technicians to match with the correct specifications for the Performance Plus range. This is essential, as undersized heat exchangers reduce the heat pump water heater's performance and increase running costs.



ECO-FRIENDLY AND SAFE

Our aim is to promote the effective use of renewable energy through consistent design advancement and development. By installing a Performance Plus underfloor heat pump water heater, you will be helping to keep our planet cleaner and greener.

Our heat pumps use only R410A zero ozone impact refrigerants, making them the natural choice for keeping New Zealand clean, green and beautiful. The hermetically sealed compressor, coupled with advanced fan design and assembly, ensures optimal air flow and quiet operation.



Your Performance Plus underfloor heat pump water heater is an investment in the health of your family now and for future family generation.

SAFETY FEATURES

All of our underfloor heat pump water heaters are fitted with...

- Safety switches for protection against excessive high pressure and loss of refrigerant
- Anti-short cycle timer fitted for added compressor protection
- System control circuit breaker
- Reverse cycle defrost for efficient coil defrosting during winter operation.
- Crank case heater to prolong the life of the compressor
- A base heater on selected units to ensure that after a de-ice function, the resulting water run off doesn't refreeze in the drain tray
- Phase rotation protection on all 3-phase models
- Anti-freeze heat exchanger protection for extended sub-zero ambient (optional)
- All 3 phase heat pumps have both external and internal compressor overloads fitted to protect the compressor from power issues.

The Duoheat range of dual-purpose heat pump water heaters eliminate the need to invest in two separate units. Ideal for heating both your underfloor and pool or hot water, reducing unit redundancies and minimising the overall equipment footprint.

duoheat



BACK UP AND SERVICE

When you install a Performance Plus Underfloor heat pump water heater, you can be assured of unprecedented after-sales service. We provide free telephone and email support on all products, for the life of the product, even if you're outside of the warranty period. With periodic maintenance, your Hot Water Heat Pumps Ltd product will provide you with a lifetime of efficient hot water heating.



WARRANTY

All of our heat pump water heater models carry a comprehensive two year parts and labour warranty, including the compressor, evaporator coil, heat exchanger and refrigeration systems.



OPTIONAL EQUIPMENT

- Remote box for the control system
- Ducts and grills for plant room installs
- Wall mounting brackets
- Rubber anti-vibration mounts

TELL YOUR SUPPLIER ABOUT YOUR SPECIFIC NEEDS

We have authorised dealers across New Zealand ready to offer obligation free advice on the best heat pump water heater to meet your needs. All of our dealers have been carefully chosen for their experience in heat pump water heating technology.

Visit the Hot Water Heat Pumps website to find an authorised dealer in your area.

Authorised Dealer:

Hot Water Heat Pumps Ltd

3 Corban Avenue, Henderson, Auckland 0612

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