

an eco friendly
& economical
heating
solution
for your new
home

**Sound too good
to be true?**

Do you dream of walking
barefoot around your house in
winter?

With a Performance Plus
Underfloor Heat Pump System,
you get safe, natural warmth
throughout your house for a lot
less than you expect!

By installing a Performance Plus
Underfloor Heating System, you
are helping to keep our planet
cleaner and greener.

we can help.



HOT WATER HEAT PUMPS LTD

ADVANCING WATER HEAT PUMP TECHNOLOGY & APPLICATION SINCE 1980

www.waterheating.co.nz

Performance Plus the Natural choice for Underfloor Heating

A **Performance Plus** Underfloor Heat Pump uses electricity to operate. The heat is extracted from the ambient air, upgraded with a compressor, and then transferred to the underfloor circuit, making this a very cost-effective way to heat the whole house continuously during the winter.

The electricity used by the heat pump does not generate heat, but moves the free heat from the air to the underfloor system, or other heating applications, such as spa, domestic hot water or swimming pool, no matter what the weather conditions are.

Due to their high efficiency, **Performance Plus** Heat Pumps have low operating costs compared to gas and diesel burners, electric elements and even other brands of heat pumps. A **Performance Plus** Underfloor Heat Pump System can heat a whole house for a similar amount some households might spend to heat 1-2 rooms!

 **a safe cheaper ozone - friendly heat system for life!**

 **more efficient than all other forms of home heating!**

Why Hydronic Floor Heating?

Want warm feet even when you go barefoot? The **Performance Plus** Underfloor Heat Pump System maintains a constant floor surface temperature of 22-26° C by way of natural radiation and convection.. With traditional forms of heating, temperature variations and draughts can occur.

With a **Performance Plus** Underfloor Heat Pump System this does not happen as the pipe work distributes heat to the entire floor area, so there are no hot or cold spots. Separate controls for each zone means you can tailor the water flow for each area to suit individual room or zone requirements night & day. 'U' series **Performance Plus** Heat Pump water heaters have been developed specifically for use in residential and commercial hydronic floor heating systems.

Your Total Home Heating solution

100% New Zealand owned and operated, Hot Water Heat Pumps Ltd **Performance Plus** range is the largest in Australasia manufacturing over 28 standard models for underfloor heating alone, plus custom models on request. This means whether you require 5kW or 95kW or larger; Hot Water Heat Pumps Ltd have a solution to meet your requirements. Custom models such as the Dual Purpose range can also heat other applications like domestic hot water, adding further value and reducing running costs in another high usage area.

the
best
choice
for
your
home



Underfloor Heat Pump Features

- **Ozone Friendly. Performance Plus** Underfloor Heat Systems use only R410A zero-impact refrigerants, making it the natural choice for keeping New Zealand clean, green and beautiful.
- **Natural. Performance Plus** Underfloor Heat Systems give you a constant feeling of natural warmth from head to toe.
- **Healthy.** No dusty air particles or toxic gas fumes in your environment.
- **Efficient.** Each unit incorporates a high efficiency, hermetically-sealed compressor. Heat exchange coils incorporate inner grooved (rifled) tubing for better heat transfer. An active electronic de-frost system is incorporated in every unit to ensure a quick efficient de-ice cycle.
- **Performance.** Generous-sized heat exchange coils aid efficient heating in low ambient conditions and help ensure optimal performance.



Performance Plus Underfloor Heat Pump Systems feature thermostatically controlled water temperatures, and flow-optimized water circulation pumps in selected models.

- **Easy.** All **Performance Plus** Heat Pumps are specifically designed for optimal performance even in freezing conditions, ensuring trouble-free all year heating.
- **Quiet - You will never know it is operating.** The hermetically sealed compressor, coupled with advanced fan design and assembly ensures optimal air flow and quiet operation.
- **Durable.** The coil fins are epoxy coated for extra protection in corrosive environments, e.g. salt laden sea air. Heat exchange coils comprise aluminium plate fins on mechanically expanded rifled copper tube, for long-lasting efficiency.

All **Performance Plus** units are made from high grade galvanised steel, and polyester powder coated for all weather protection (IP 45). External fasteners are stainless steel.

- **Long Life.** Your **Performance Plus** Underfloor Heat System is an investment in the health of future family generations.



heat your whole house
for the cost of two rooms!





7GU5 to 7GU20

7GU16 to 7GU18



7GU42



7GU85 & 7GU95

 **free** product support
even **30 years** outside the warranty!

Optional Equipment selected models only

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

Safety Features

- High Pressure and loss of refrigerant protection
- Anti-rapid cycle timer and internal overload for compressor protection
- Circuit breaker control circuits
- Time-and-temperature controlled electronic de-ice switch prevents icing up of the coil during the heating cycle
- Crank case heater
- Compressor minimum run time to ensure oil return
- Heat trace on selected units to ensure that after a de-ice has performed that condensate water leaves the heat pump in preference to refreezing in the drain tray
- Phase rotation protection on all 3-phase models
- (Optional) Anti-freeze heat exchanger protection for extended sub zero ambient

Backup and Service

When you install a **Performance Plus** Underfloor Heat Pump System, you can be assured of unprecedented after-sales service, with FREE telephone and email support on all **Performance Plus** products, for the LIFE of the product, even if 30 years outside of the warranty!

With periodic maintenance, your NZ made **Performance Plus** Underfloor Heat Pump System will give you a LIFETIME of healthy home heating!



Our Mission

- To provide high quality, cost efficient underfloor heating solutions, using durable, low maintenance **Performance Plus** Heat Pump technology, ensuring excellent long term value for our clients.
- To seek to reduce the serious health effects associated with high indoor humidity levels
- To promote the effective use of renewable energy through consistent design advancement and development.
- To create customer satisfaction by delivering a targeted service through a nationwide distribution channel, with a view to establish a worldwide network.



clean & safe

All Onboard Underfloor Heat Pump

Model	kW Input	kW Output ¹
7GUb5-1	1.4	5
7GUb8-1	2.2	8
7GUb9-1	2.8	9
7GUb11-1	3.4	11
7GUb14-1	4.0	14
7GUb16-1	4.6	16
7GUb11-3	3.4	11
7GUb14-3	4.0	14
7GUb16-3	4.6	16
7GUb18-3	5.0	18

Standard Underfloor Heat Pump

Model	kW Input	kW Output ¹
7GU5-1	1.4	5
7GU8-1	2.2	8
7GU9-1	2.8	9
7GU11-1	3.4	11
7GU14-1	4.0	14
7GU16-1	4.6	16
7GU11-3	3.4	11
7GU14-3	4.0	14
7GU16-3	4.6	16
7GU18-3	5.0	18
7GU24-3	6.0	24
7GU27-3	7.0	27
7GU33-3	10.0	33
7GU42-3	12.0	42
7GU53-3	14.0	53
7GU63-3	20.0	63
7GU85-3	24.0	85
7GU95-3	28.0	95

KEY

7G - 7th Generation R410-A

U - Underfloor Heating

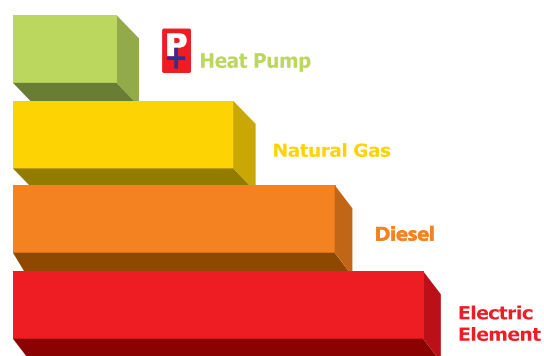
b - Built-in Buffer Tank & Circulation Pump

¹ - Underfloor kW Output values are nominal ratings based on 8°C Dry Bulb and 38°C water temperature.

- For circulation pump sizing on Models 7GU24 and larger please contact HWHP Ltd.
- Hot Water Heat Pumps Ltd reserves the right to alter specifications without notice.



Running Cost Comparisons



YOUR LOCAL DEALER:



Phone 09 838 9444 / 0800 33 66 33 / Fax 09 838 6223 / info@waterheating.co.nz
 PO Box 21 586 Henderson / Auckland / New Zealand / www.waterheating.co.nz