

P Performance Plus Heat Pump Water Heaters

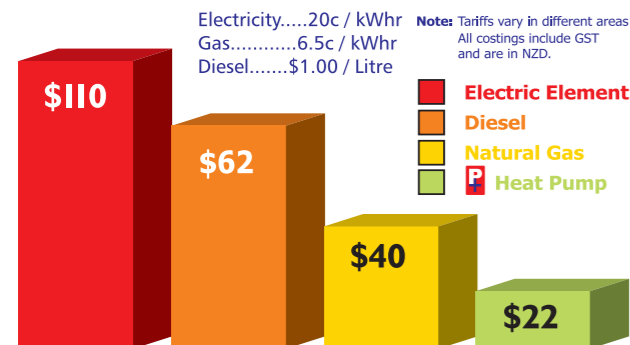
	SWIMMING POOL only			POOL / SPA DUAL PURPOSE		
	MODEL	kW _{in}	kW _{out}	MODEL	kW _{in}	kW _{out}
SINGLE PHASE	7GP7-1	1.4	7	7GP7S5-1	1.4	7
	7GP11-1	2.2	11	7GP11S8-1	2.2	11
	7GP14-1	2.8	14	7GP14S9-1	2.8	14
	7GP17-1	3.4	17	7GP17S11-1	3.4	17
	7GP20-1	4.0	20	7GP20S14-1	4.0	20
3 PHASE	7GP23-1	4.6	23	7GP23S16-1	4.6	23
	7GP17-3	3.4	17	7GP17S11-3	3.4	17
	7GP20-3	4.0	20	7GP20A14-3	4.0	20
	7GP23-3	4.6	23	7GP23S16-3	4.6	23
	7GP25-3	5.0	25	7GP25S18-3	5.0	25
	7GP30-3	6.0	30	7GP30S24-3	6.0	30
	7GP35-3	7.0	35	7GP35S27-3	7.0	35
	7GP50-3	10.0	50	7GP50S33-3	10.0	50
	7GP60-3	12.0	60	7GP60S42-3	12.0	60
	7GP70-3	14.0	70			
	7GP100-3	20.0	100			
	7GP120-3	24.0	120			
	7GP140-3	28.0	140			
	7GP200-3	40.0	200			
	7GP240-3	48.0	240			
7GP280-3	56.0	280				

Note: kW ratings are nominal and rated at 18°C Wet Bulb and 28°C water.

Due to their high efficiency, Performance Plus Heat Pumps have a low cost of operation. Typically, for every 2 kW of electric input, you receive 10 kW worth of heat. That is a **HUGE SAVING** on the running costs!

Average weekly Pool Heating cost

comparison over seven months (with a cover) based on the following tariffs



Test completed in Auckland, New Zealand with a pool surface area of 40m²

Contact your nearest dealer for larger or custom designed units.

AUTHORISED DEALER

FEATURES

- Quiet running
- Built in drain tray
- Water flow switch
- Titanium tube heat exchangers
- Epoxy coated corrosion resistant evaporator coils
- Built in refrigeration safety switches
- Electronic reverse cycle de-ice control
- Easy to operate electronic controller with digital display
- TX valve for more efficient low ambient operation
- Compressor(s) have built in internal and external overload

BENEFITS

- Easy to install and operate
- Low operating cost / high efficiency
- Ozone friendly refrigerants
- P+ Heat Pumps are environmentally friendly
- Long life expectancy and are very durable
- Not dependent on direct sunrays, like solar panels
- 35 different models from 7 kW to 280kW output units
- Automatically maintains any set temperature in all weather conditions, day & night from -10°C to 45°C
- Higher energy efficiency = lower running costs
- Because P+ Heat Pumps are using renewable energy, they are safer and cleaner to run than fossil fuel burners
- Lower life-cycle costs and long term environmental benefits
- P+ Heat Pumps are more efficient (average efficiency 500%) therefore they cost less to run than gas burners, diesel heaters or electric elements
- Installing P+ Heat Pumps result in lowering CO₂ emissions of up to 70% (Compared to gas and diesel boilers)
- Designed & Manufactured in New Zealand of high quality components



For a **FREE** pool heat analysis and sizing consultation please call



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'The Best Quality Heat Pump Water Heater made in New Zealand'

Swimming Pool Heating Specialists

As a New Zealand provider of engineered and manufactured heat pump products, Hot Water Heat Pumps Ltd is recognized for its innovation, quality, performance, reliability, and after sales service. Our nationwide distribution network makes it easy for clients in New Zealand to enjoy their heated pool at any time they wish to. Today, Hot Water Heat Pumps Ltd design and manufacture a range of **Performance Plus** products for domestic and international markets.

How Does It Work?

A heat pump is like a fridge working in reverse and uses electricity to operate. The free heat is extracted from the ambient air, upgraded with a compressor, and then transferred to the water.

Therefore, it is very cost effective to heat the required pool water needed for the swimming or spa pool even in the colder months of the year. The electrical input does not generate heat but just moves the free heat to the water, no matter what the weather conditions are. Due to their high efficiency, **Performance Plus** Heat Pumps have a low cost of operation comparing to gas, diesel pool heaters or electric elements.

Operation & Efficiency

A **Performance Plus** Heat Pump will ensure a set temperature in your swimming pool, regardless of outside weather conditions. When properly sized, they can maintain any desired pool temperature between 26° and 30°C and Spas up to 40°C. A **Performance Plus** Heat Pump will also operate in ambient temperatures below 0°C.

Product lines

- Swimming & Spa Pool Heat Pumps
- Swimming Pool Heat & Chill Heat Pumps
- Underfloor Water Heating / Cooling Heat Pumps
- Heat Pump Water Heaters & Chillers for portable water
- Water to Water and Air to Water Chillers & Heaters
- Time Clock Bypass & Management Control Systems
- Reverse Cycle Water to Water Chillers & Heaters
- Indoor Pool Condensation Control & Heat Recovery Systems
- Dual & Triple Purpose Heat Pump Applications

Safeties and Controls

All **Performance Plus** Heat Pumps are fitted with protection systems to prevent damage in the event of a malfunction. Hi/Low pressure controls are essential and in the case of our swimming pool heat pumps our purpose-built flow switches ensure the heat pump cannot operate without water flow. Should there become a problem the unit will shut down before damage can occur.



Dairy Flat, Auckland, New Zealand



Nambour Olympic Pool - Sunshine Coast, Queensland, Australia



Greens Community - Jabel Ali, Dubai

Ozone Friendly Refrigerants

Performance Plus Heat Pumps use R-410A certified OZONE SAFE refrigerants.

At Hot Water Heat Pumps Ltd, we are committed to playing our part in making our planet a cleaner, greener environment for future generations.

Dual & Triple Purpose Heat Pumps

Dual & Triple Purpose heat pumps are uniquely designed and manufactured by Hot Water Heat Pumps. Our first Dual Purpose Heat Pump was successfully built in Auckland back in 1983 as a Pool and Domestic Hot Water unit.

Dual & Triple Purpose heat pumps:

- have all the advantages of our standard heat pumps
- eliminate the need for investing in two or three separate heaters
- provide a smaller foot print and reduce unit redundancies
- substantial cost savings over the long term

Total Efficiency from -10°C to +45°C

Performance Plus Heat Pumps are durable and versatile. They can safely operate in ambient temperatures from -10°C to +45°C. This is possible using technology developed by Hot Water Heat Pumps.

Automatic Defrost

When the ambient temperature falls below 6°C, ice can form on the evaporator coils. Using an electronic de-ice controller our **Performance Plus** Heat Pumps automatically initiate a de-ice cycle when required to ensure maximum water heating is available at all times, even in the cold winter months.

Superior Construction

All **Performance Plus** Heat Pumps are designed for superior corrosion resistance with heavy-gauged galvanised steel cabinetry and a polyester powdercoat finish. The aluminium fins are epoxy coated for extra protection; this is essential in coastal conditions with salt-laden air. The fins are rifled onto copper tubes for better heat transfer.

Titanium Tube Heat Exchangers

All **Performance Plus** titanium tube heat exchangers are purpose built in-house by qualified technicians to match up with the correct specifications for each unit and application. This is essential as undersized heat exchangers reduce the heat pump performance and increase the running costs. All **Performance Plus** Swimming Pool and Spa Heat Pumps are fitted with our uniquely designed titanium tube heat exchanger. Titanium is used as pool water can become very corrosive if not maintained properly.

