

THERMOPLUS

Pool & Spa Heat Pumps

Features of "ThermoPlus" Pool Heat Pumps

- Flow switch activation
- Quiet operation
- Side discharge fan, makes Installation easy
- Highly efficient titanium heat exchanger
- Digital display thermostat
- ABS Housing

"ThermoPlus" Pool Heat Pumps with Titanium Heat Exchanger & ABS Housing

"ThermoPlus" heat pumps are the ideal economical solution for pool heating as high efficiency and quality components give "ThermoPlus" heat pumps an excellent cost to quality ratio. You will enjoy your heated pool with significant energy savings for years to come.



ABS (Acrylonitrile - Butadiene - Styrene) Plastic Cabinets

ABS plastic cabinets provide a balanced combination of mechanical toughness, wide temperature tolerance, good dimensional stability, chemical resistance and electrical insulating properties. Therefore, the cabinets will not rust, like many of the imported units with metal cabinets when installed in New Zealand's harsh and climates.

Temperature control

Temperature control is by our specially designed electronic temperature controller which measures 0.1°C temperature rise in the pool reliably when the heat pump is on.

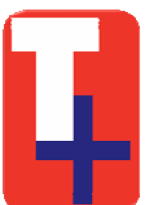
- Accurate Temperature Control to 0.1°C
- Diagnostic Digital Display
- User friendly operation
- Quick and easy temperature adjustment
- Constant display of water temperature when filtering



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HOT WATER HEAT PUMPS LTD

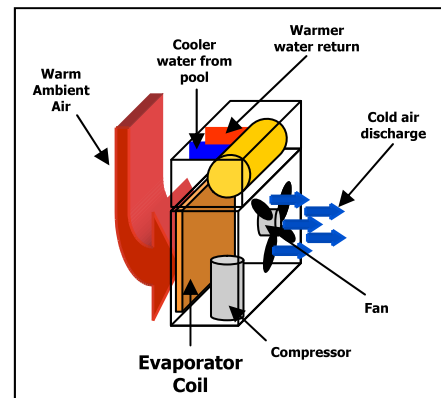
Advancing Water Heat Pump Technology

SINCE 1980



How A Heat Pump Works

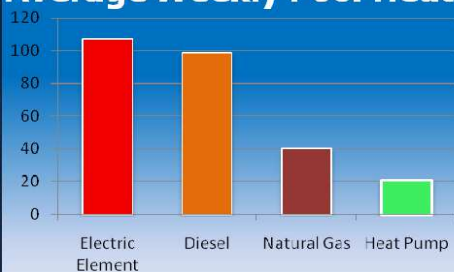
“ThermoPlus” Pool Heat Pumps use electricity to operate the refrigeration system. The free heat is extracted from the ambient air, upgraded with a compressor, and then pumped to the water. Therefore, it is very cost effective to heat the swimming or spa pools even in the colder months of the year, as the electrical input is not to generate heat but just to move the free heat to the water. Due to their high efficiency, “ThermoPlus” heat pumps have a low cost of operation comparing to gas, diesel burners or electric elements.



| Model | THP-5-1 | THP-7-1 | THP-9-1 | THP-12-1 | THP-14-1 | THP-17-1 | THP-21-1 | THP-26-3 | |
|----------------------------|--|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|
| Power Input (kW) | 1.1 | 1.4 | 1.7 | 2.15 | 2.7 | 3.3 | 4.0 | 5.1 | |
| *Heating Capacity (kW) | 5 | 7 | 9 | 12 | 14 | 17 | 21 | 26 | |
| Nominal Run Current (Amps) | 5.1 | 5.84 | 7.8 | 9.8 | 11.05 | 14.8 | 16.7 | 7.9 per Phase | |
| Power Supply | Single Phase | | | | | | | Single Phase | |
| Heat Exchanger Type | Spiral Titanium Coil in Injection PVC Shell | | | | | | | | |
| Compressor Type | Rotary | | | | | Scroll | | | |
| Noise level (dBA) | 50 | 53 | 54 | 56 | 56 | 56 | 56 | 57 | |
| Air Discharge | Horizontal | | | | | | | | |
| Refrigerant | R-410A | | | | | | | | |
| Dimension (mm) | 780 x 295 x 515 | 940 x 360 x 585 | 1015 x 370 x 625 | 1015 x 370 x 625 | 1080 x 415 x 710 | 1080 x 415 x 710 | 1080 x 415 x 960 | 1080 x 420 x 1260 | |
| Weight (kg) | 42 | 53 | 60 | 64 | 75 | 85 | 105 | 140 | |
| Notes: | * Nominal Heating Capacity based on 18°C wet bulb and 28°C water temperature | | | | | | | | |

Due to their high efficiencies “ThermoPlus” Pool heat pumps have a low cost of operation. Typically, for every 2 kW of electric input, you receive 6 to 10 kW worth of heat. That is a **HUGE SAVING** on the running cost.

Average Weekly Pool Heating Cost



Cost comparison over seven months with a cover based on the following tariff:

Electricity 20c/kWh
Gas 6.5c/kWh
Diesel \$1.65/litre

Pool surface area 40m²
Auckland
New Zealand



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