



Residential

## ThermoPlus THP21-1

# ThermoPlus Pool & Spa Heat Pumps

ThermoPlus Pool Heat Pumps are extremely cost efficient. ThermoPlus Heat Pumps offer an excellent cost to quality ratio. You will enjoy your heated spa or pool with significant energy savings for years to come.

### THERMOPLUS FEATURES

- Flow switch activation
- Quiet operation
- Side discharge fan, makes installation easy
- Highly efficient titanium heat exchanger
- Digital display thermostat
- ABS housing
- Rubber feet

### ABS PLASTIC CABINETS

ABS (Acrylonitrile - Butadiene - Styrene) 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 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



Experience the best in heat pump water heater technology

**THERMOPLUS**

**HOT WATER HEAT PUMPS LTD**

Advancing Water Heat Pump Technology

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## ThermoPlus THP21-1

# Technical Specifications

Power input (kW)	4.3
Heating capacity* (kW)	21
Running current (Amps)	16.7
Power supply	Single Phase
Required D - curve circuit breaker amps	32 amps
Heat exchanger type	Spiral titanium coil in injection PVC shell
Compressor type	Scroll
Noise level dB(A)	56
Air discharge	Horizontal
Refrigerant	R-410A
Dimensions LxWxH - mm	1080 x 415 x 960
Weight - kg	105

\*kW values will vary depending on the conditions.

\*Sound pressure measured at 1m in decibels in reverberant room.

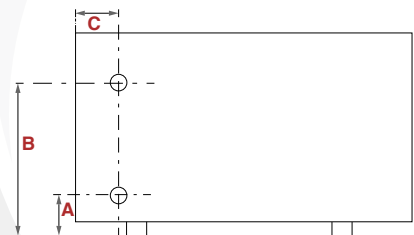
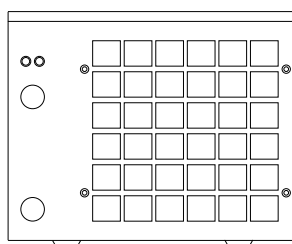
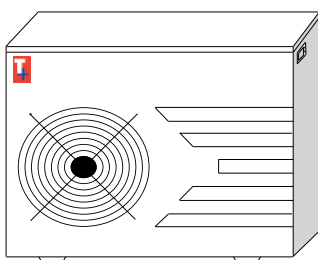
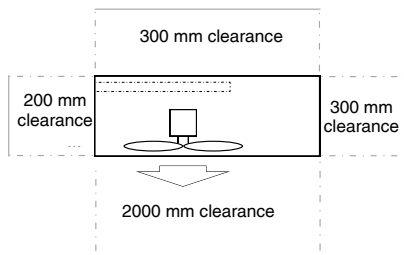
### SWIMMING POOL SIZING CHART EXTENDED SEASON\*

Coastal North Island*	Central North Island/ South Island*
Residential <sup>2</sup> Surface Area (m <sup>2</sup> )	Residential <sup>2</sup> Surface Area (m <sup>2</sup> )
95	80

\* Extended season, New Zealand, mid-October to mid-April.

<sup>2</sup> Residential – pool covered when not in use (up to 4 hours/day uncovered).

### INSTALLATION INSTRUCTIONS



THP21-1

A - 100mm B - 600mm C - 120mm

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## Why buy from Hot Water Heat Pumps Ltd

**Back up and service:** 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's product will provide you with a lifetime of efficient hot water heating.

**Warranty:** All of our residential heat pump pool heater models carry a comprehensive two year parts and labour warranty, including the compressor, evaporator coil, heat exchanger and refrigeration systems. The titanium tube within the heat exchanger is covered against corrosion for 10 years.



**Safety first:** Our heat pump water heaters are fitted with protection systems to prevent damage in the event of a malfunction. Such as a flow switch to ensure the heat pump cannot operate without water flow and other refrigeration safeties. If a problem is identified, the unit automatically shuts down before damage can occur.

**Energy efficient:** Government agency EECA (Energy Efficiency Conservation Authority) has listed heat pumps as one of the most energy efficient forms of heating in New Zealand.

**Clean and green:** As heat pumps use renewable energy (air), they are safer and cleaner to run than fossil fuel burners and can lower CO<sub>2</sub> emissions by up to 70% (compared to gas and diesel burners).



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