



ThermoPlus THD50i-3 High Temperature Water Heater

The ThermoPlus range of Heat Pump Water Heaters provide an energy efficient, low carbon means of extracting free heat from the ambient air for the purposes of heating and maintaining the potable hot water requirements for residential and commercial applications.

THERMOPLUS FEATURES

- Side discharge fan, makes installation easy
- Highly efficient titanium heat exchanger
- UV stabilized ABS housing on a stainless steel base
- Digital display thermostat
- Quiet operation

TEMPERATURE CONTROL

Temperature control is by our specially designed electronic temperature controller which reliably measures 0.1°C temperature rise in water temperature.

- Accurate temperature control to 0.1°C
- Diagnostic digital display
- User friendly operation
- Quick and easy temperature adjustment
- Constant display of water temperature



ThermoPlus heat pumps are the ideal economical solution for water heating. High efficiency and quality components give ThermoPlus heat pumps an excellent cost to quality ratio.

Experience the best in heat pump
water heater technology

 **THERMOPLUS**

 **HOT WATER HEAT PUMPS LTD**
Advancing Water Heat Pump Technology **SINCE 1980**

Technical Specifications

Model		THD50i-3
Power Supply		380-420/50/3
Performance		
Heating Conditions – Ambient Temperature: DB 7°C / WB 6°C; Water Temperature (In/Out): 30/35°C		
Max Heating Capacity (kW)		50
COP (W/W)		3.86
Heating Capacity Min/Max (kW)		16.3/50
Heating Power Input Min/Max (W)		3340/12953
COP Min/Max (W/W)		3.86/4.88
Heating Condition – Ambient Temperature: DB 7°C / WB 6°C; Water Temperature (In/Out): 40°C/55°C		
Heating Capacity (kW)		45.5
COP (W/W)		3.42
Heating Capacity Min/Max (kW)		14.23/45.5
Heating Power Input Min/Max (kW)		3621/13304
COP Min/Max (W/W)		3.42/3.93
Cooling Condition – Ambient Temperature: DB 35°C / WB 24°C; Water Temperature (In/Out): 23°C/18°C		
Max Cooling Capacity (kW)		38.5
EER (W/W)		3.26
Cooling Capacity Min/Max (kW)		12.36/38.5
Cooling Power Input Min/Max (kW)		3314/11810
EER Min/Max (W/W)		3.26/3.73
Cooling Condition – Ambient Temperature: DB 35°C / WB 24°C; Water Temperature (In/Out): 12°C/7°C		
Max Cooling Capacity (kW)		30.53
EER (W/W)		2.58
Cooling Capacity Min/Max (kW)		10.18/30.53
Cooling Power Input Min/Max (W)		2925/11833
EER Min/Max (W/W)		2.58/3.48
Max Power Input (kW)		20.5
Max Current		43.26
Wire Diameter (mm²)		10
Fuse or Circuit Breaker (A)		50A
Compressor Type — Quantity/System		HITACHI
Refrigerant Suggested Input (kg)		2.8
Fan	Type	DC
	Quantity	1
	Airflow (m3/h)	23000
	Rated Fan Speed	950
	Rated Power (W)	170
Water Side Heat Exchanger	Type	Plate Heat Exchanger
	Water Pressure Drop (kPa)	50
	Piping Connection (inch)	G1.5"
Noise Level Power Pressure (dB(A))		75
Refrigerant		R290
ErP Level (35°C)		A+++
ErP Level (55°C)		A++
Net Weight (kg)		356
Net Dimensions (L x D x H)		1187 x 1087 x 1561

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 commercial heat pump pool heater models carry a comprehensive two year parts and labour warranty, including the compressor, evaporator coils, heat exchanger and refrigeration systems.



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 CO₂ emissions by up to 70% (compared to gas and diesel burners).