

Unique Technology Strong points

Top Main Unique

A. Updated Japanese Inverter Technology

1. At air temp of 20 °C, COP is > 6.2, at air temp of 15 °C, COP is > 4.5;
2. It makes efficiency 15~30% higher than any other competitors.
3. The superior efficiency of Fairland Heat Pumps saves 80% running costs of a conventional Electric Pool Heater.

B. Powerful & Reliable Guarantee.

5 years for Titanium heat exchanger, **3 years** for the whole unit.

C. Titanium Heat Exchanger of Unique Design.

1. Pressure-tested, original & unique design guarantees highest heat exchanging efficiency.
2. First Class Titanium Heat Exchanger totally guarantees Anti-Rusting.

More detail unique:

➤ Commercial Control System Adopted.

More accurate than domestic control system & guarantees more stability and reliability.

➤ Water flow switch of special design.

Automatic stop in low water pressure, double Self-Security, it protects the whole system.

➤ Water flow direction of special design

For the titanium water tank, Inlet is below and Outlet is above, which make higher efficiency in heating because the hot water is lighter and will go up. (The competitors design the water flow direction according to water chiller, it's opposite and make lower efficiency.)

➤ Compressor Capacitor of special design.

We set the temperature of capacitor up to 130 °C for more reliable and stable performance, which specially comes from our Tropical Technology. (Normal capacitors setting temp is 70~90 °C)

➤ Automatic Restart adopted.

➤ Intelligent defrosting design.

➤ Mechanical or Electronic control for optional.

➤ Quiet running noise lowest to 45 decibel.

Titanium Heat Exchanger
Cut View



Technical Specifications



Horizontal Series

Model	THP05	THP06	THP09	THP12	THP16	THP23	THP23s	THP30s
Heating Capacity (KW)	4.5	6	9	12	16	23	23	30
C.O.P.	≥6.2	≥6.2	≥6.2	≥6.2	≥6.2	≥6.2	≥6.2	≥6.2
Advised Pool Volume m ³ with insulated pool cover)	0-20	20-30	30-40	40-60	50-80	80-110	80-110	100-150
Advised Water flux m ³ /h	≥2	≥4	≥4	≥5	≥6.5	≥10	≥10	≥10
Rated power/ Max power Kw	0.70/1.1	0.98/1.4	1.4/1.8	1.8/2.4	2.4/3.1	3.7/5.6	3.7/5.6	4.5/6.3
Power Supply	220-240V/ 1Ph /50Hz						380V/3Ph/50Hz	
Rated current / Max current A	3.3/4.8	4.6/6.4	6.4/8.2	8.2/11.0	10.9/14.1	17.5/26.5	5.6/8.5	6.8/9.5
Heating Exchanger	Titanium in PVC (Patent Design)							
Compressor	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll
Fan Direction	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Vertical
Noise (dB(A))	≤48	≤48	≤48	≤48	≤50	≤56	≤56	≤58
Water pipe in-out spec (mm)	50	50	50	50	50	50	50	50
Net Dimension - LxWxH (mm)	800x285x550	940x285x550	940x285x550	1000x300x630	1000x380x730	1110x425x930	1110x425x930	1200x425x930
Packing Dimension - LxWxH (mm)	880x360x620	1020x360x620	1020x360x620	1080x360x700	1080x440x800	1200x500x1000	1200x500x1000	1280x500x1000
Net weight / Gross weight Kg	40/45	45/50	52/57	65/70	85/93	102/110	102/110	123/133
Qty Per 20'ft / 40'ft (sets)	108/312	90/228	90/228	90/180	90/180	42/92	42/92	40/90