

# SWIMMING POOL HEAT PUMP



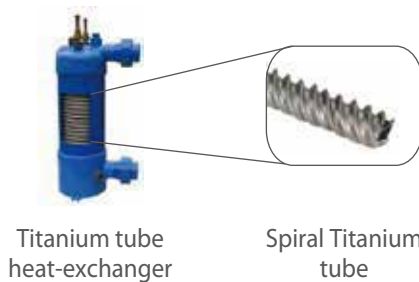
# Swimming pool heat pump

## General Features

### Prolonged operating life

#### Spiral titanium tube heat-exchanger

- Titanium tube with PVC casing provides superior corrosion resistance.
- Spiral tube design, expand the surface area of the Titanium tube and water to provide heater transfer at a great rate.



#### Plastic ABS cabinet

(For swimming pool HPs except ECO series)

- Plastic ABS panels, excellent weather resistance, pass 72 hours Weatherability Test.

#### Galvanized steel cabinet (For ECO series)

- Powder-coated panel for galvanized steel cabinet made of galvanized steel passes 1,000 hours Salt Spray Test.

#### Anti-UV cover as optional(Except Mini PAC)

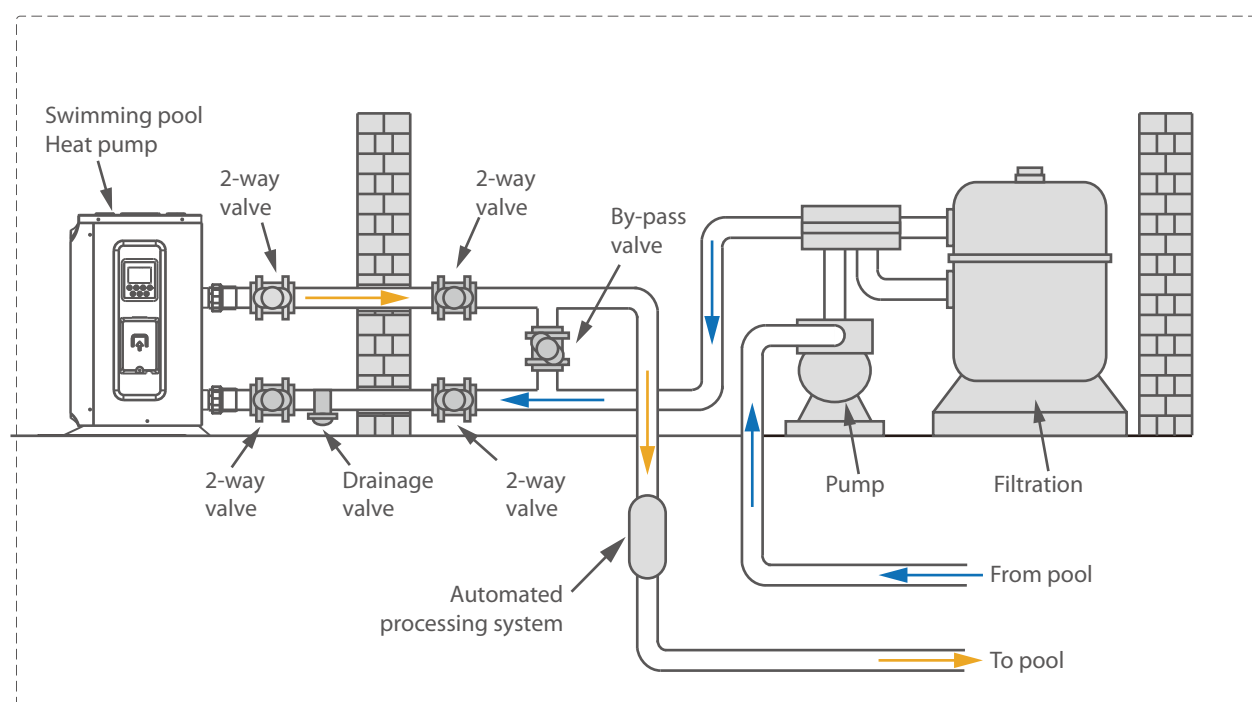
- Anti-UV cover is made of silver plasters. The cover will provide products good protection during the idle period of the product.

### Operating reliability

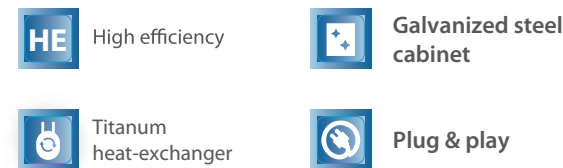
- Multi-protections, including pressure protections, water flow protection, temperature protections.
- When there is malfunction happened, diagnosis will be automatically made and the result will be displayed in controller screen.
- Built-in automatic 4-way valve for defrost. (Except Mini PAC)

### Convenient installation

- It is very convenience that only inlet/outlet water pipes and electricity cables need to connect.
- LCD controller with large screen as standard, and 15m shield cable as optional.
- Inlet and outlet water pipe connectors, drainage pipe for condensing water and rubber gaskets for unit fixing as accessories.(Except Mini PAC)






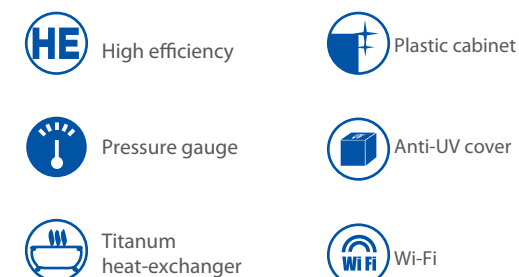
## Applications sketch



## Product Lineups

### Swimming Pool Heat Pumps

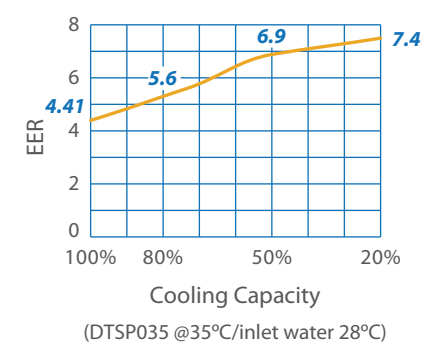
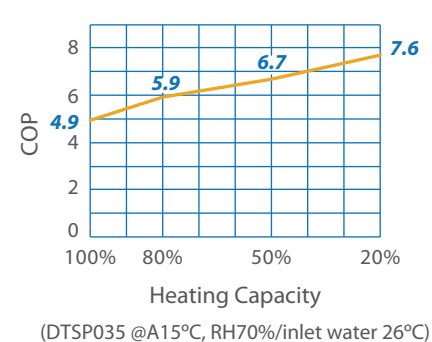
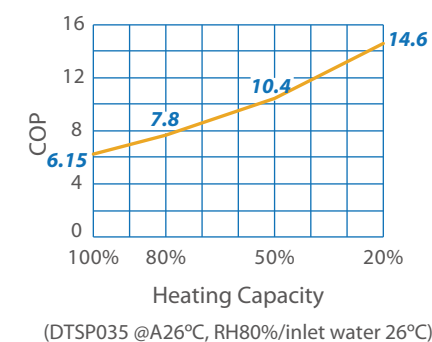
Series	Heating capacity range (kW)					
	3.0	10.0	15.0	20.0	25.0	30.0
Wave inverter series 	R32					31.7
	R410A					31.7



## Save energy and money with high efficient running

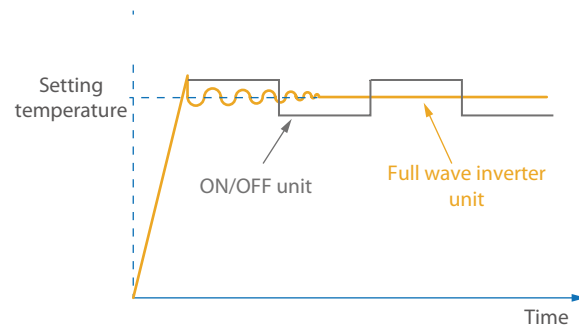
- Well-known brand compressor: GMCC, twin-rotary (except size 031 & 032),DC inverter technology,more efficient.
- High efficient brushless DC motor running with low noise.
- Thanks to electronic expansion valve, more accurate for refrigerant control.
- High COP/EER performance to save energy and money.

Notes: The swimming pool capacity is 45m<sup>3</sup>, and the temperature keeps 26°C.

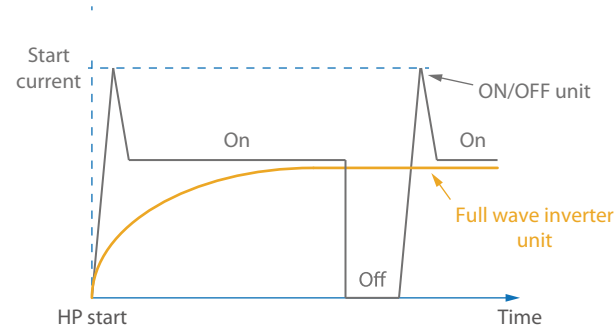


## Stable running and high reliable

- Full DC inverter technology, the unit can keep more stable running than ON/OFF unit, and keep the temperature of the pool water more accurate.



- Soft start design to guarantee the safety of whole-house's electricity supply. When the unit start to working, the current will slowly increase from 0A.

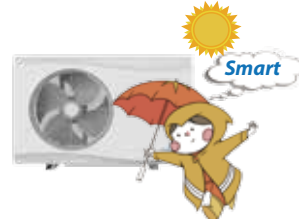


## Three modes design, maximise your pool season



### Boost Mode

20% - 100% capacity output  
Fast heating  
Late spring/early autumn in cooler climate



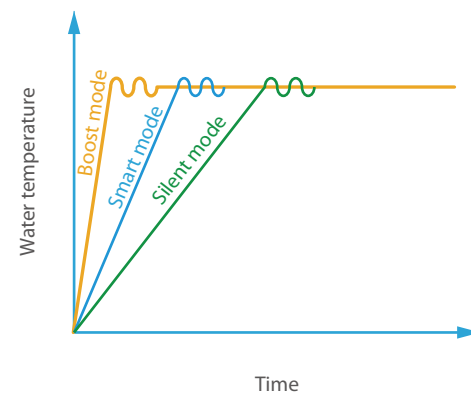
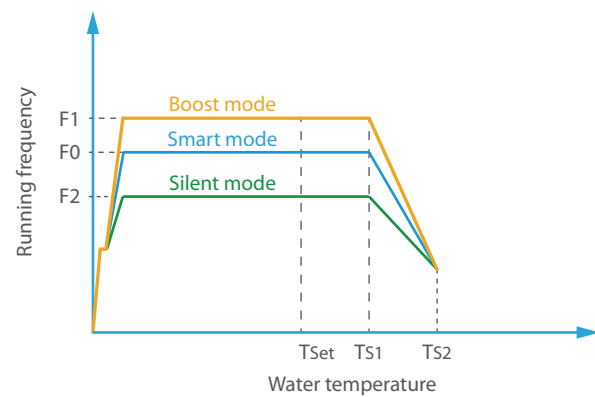
### Smart Mode

20% - 80% capacity output  
As standard  
Spring to Autumn in warm climate



### Silent Mode

20% - 50% capacity output  
Using at night  
Middle of summer in hot climate



## Super silence, much quieter

- Super quiet GMCC compressor and DC motor help full wave inverter heat pump to quiet running.
- With CFD air flow technology, newly designed fan blower and outlet grille bring super quiet and high efficient operation.

Model		DTSP031 (N8)	DTSP032 (N8)	DTSP033 (N8)	DTSP034 (N8)	DTSP035 (N8)
Sound pressure level (@4m)	dB(A)	27.4 - 35.8	29.5 - 36.6	29.4 - 37.3	30.4 - 37.9	30.6 - 38.2
Sound pressure level (@10m)	dB(A)	19.1 - 27.2	19.5 - 27.4	20.5 - 27.9	20.6 - 28.2	20.8 - 28.6

Model		DTSP036 (N8)	DTSP037 (N8)	DTSP038 (N8)	DTSP039 (N8)	DTSP040 (N8)	DTSP041(N8)
Sound pressure level (@4m)	dB(A)	32.8 - 40.5	33.2 - 40.9	35.3 - 41.1	35.6 - 41.8	36.4 - 44.7	37.9 - 46.9
Sound pressure level (@10m)	dB(A)	23.0 - 31.8	23.6 - 32.2	24.3 - 33.4	24.6 - 33.7	26.6 - 36.5	27.3 - 38.2

## Notes