

Swimming Pool & SPA Heat Pump

Swimming Pool Heat Pump is one of the most economical systems to heat the swimming pool efficiently. Using the free renewable energy from the air and the earth it delivers up to five times more energy in heating than a traditional heating system such as gas boiler or electric heater. So you will save 4/5 cost of the traditional heating. The unit is working at low running costs, no direct CO emission and are able to be integrated with energy systems like solar and boiler. Swimming pool heat pump lengthens your swimming season and gives you comfort at high level.



Ecological and economical heating

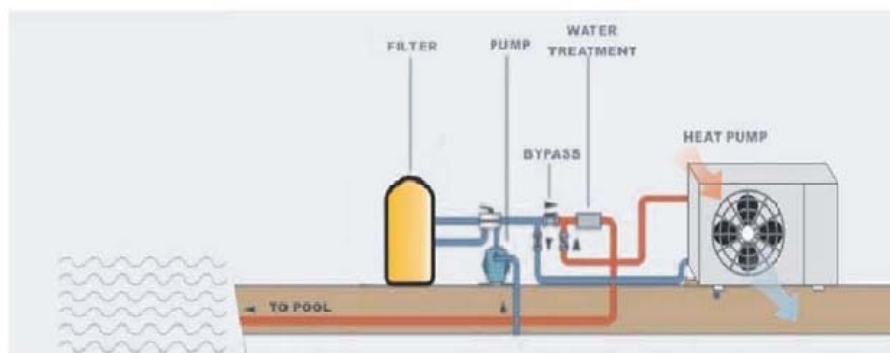
By making use of the renewable energy in the outside air, it consumes much less energy with low carbon emission. Use environment friendly advanced refrigerant R410A which has no effect on Ozone.

Titanium heat exchanger

Advanced titanium heat exchanger guarantees long life span of heat pump free from corrosion and rust. By using titanium heat exchanger Triple E pool heat pump could be applied with all types of water treatment such as chlorinate, iodine, bromine and salt water.

Multiple functions:

Heat unction is available, Cool function is optional; if you need the cooling function, please claim it in advance. Auto operation, auto-restart, auto defrost. Timer on/off no human attendance is required. Wide ambient working condition $-5^{\circ}\text{C} \sim 43^{\circ}\text{C}$



Reliable operation

To guarantee the stable running and increase the durability of the unit multiple protection devices have been set into Triple E pool heat pumps which include insufficient water flow protection, high/low pressure protection, overload protection, compressor protection.

Safe use

Swimming pool heat pump works without oil: gas or other hazardous substance which avoid potential risk that goes together. Moreover no gas connection or a fuel tank is needed. No risk of intoxication, smell or pollution from leakage.

Easy Installation

Pool heat pump is easy to be installed with simple electrical and hydraulic connection. The cost of installation is relatively low.

Self-diagnosis

When there is malfunction, the pool heat pump will make self diagnosis by displaying error code through the LCD control panel. The problem could be found out at a glance.

Technical specification:

Technical Data		EEE-SPH-45	EEE-SPH-100	EEE-SPH-180
Heating Capacity	KW	4.5	10	18
Power Input (H/C)	KW	0.88	1.98	3.61
COP		5.23	6.05	4.99
Cooling Capacity (Optional)	KW	3.2	8	13
Power Supply	V/Ph/Hz	220-240/1/50		
Rated Current	A	3.9	9.38	16.5(5.6)
Output water Temp, range	°C	16-46		
Refrigerant		R410A		
Compressor	brand	TOSHIBA		
Air to water heat exchanger		Titanium Heat Exchanger		
Water flow rate	M3/h	≥3	≥4.5	≥7.5
Water connection	Mm(Inch)	50.8(2")		
Dimensions (Net)	mm	816X306X510	1118X350X617	820X720X1055
Dimension (Packing)	mm	945X336X630	1138X380X740	842X755X1172
Net weight/Gross weight	Kg	39/49	62/79	119/135
Size of swimming pool	M3	≤14	≤30	≤54
Noise level	dB(A)	42	45	50

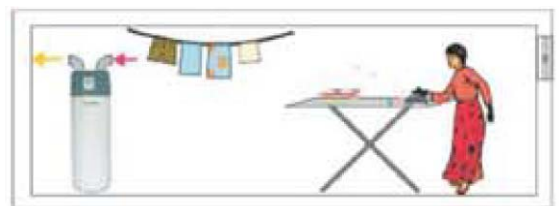
All In One Domestic Hot Water Heat Pump

Triple E domestic hot water heat pump is one of the most economical systems to heat the water for family use- offer hot life water to the bathroom and kitchen Using free renewable energy from the air, the unit is highly efficient with low running costs. It's efficiency can be up to 3-4 times more than conventional gas boiler or electrical heater.



Waste heat recovery

Units can be installed outside the kitchen, in the fireplace or the garage, which has a large number of waste heat so that the unit has higher energy even in very low outside temperature during winter.



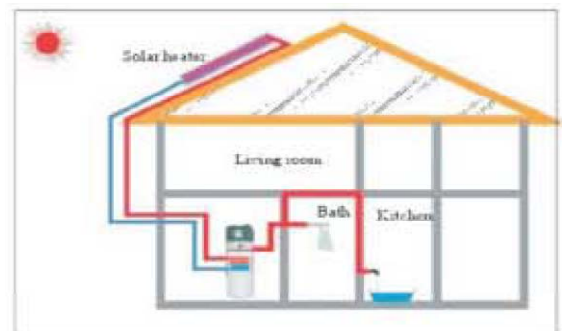
Hot water and dehumidification

Unit can be placed in the laundry room or clothing room. When it produces hot water it lowers temperature and dehumidify the room as well. The advantages can be shown particularly in the humidity season.



Hot water and storage room cooling

Units can be placed in the drinks, fruits and food storage to make hot water, and to lower the temperature of the room. At the same time it keeps food fresh. A multipurpose heat pump makes perfect effects.



Technical Specification:

Model		HPAW-20A 200L	HPAW-20A 300L	HPAW-28A 200L	HPAW-28A 300L
Heating capacity	kw	2.0	2.0	2.8	2.8
Power input	W	513	513	700	700
COP	W/W	3.9	3.9	4.0	4.0
Power supply	V/N/Hz	220-240/1/150			
Compressor		Rotary			
Refrigerant type		R134A		R410A	
Water tank Volume	L	200	300	200	300
Net Dimensions	mm	Ø560X1740	Ø560X1860	Ø560X1740	Ø560X1860
Packing Dimensions	mm	580X590X19 40	680X660X2060	590X580X1940	680X660X2060
Net Weight	Kg	82	103	82	103
Gross Weight	Kg	87	112	87	112
Noise level	dB(A)	47	47	48	48
Features included:		1.5 kw auxiliary electrical heater			
		Electronic expansion valve			
		Magnesium stick			
		Relieve / Safety valve			
		One extra set of heat exchanger, such as Solar coil (optional, if you need please claim in advance)			
NOTES:					
Capacities and power inputs based on the following conditions:					
- Heating: Ambient temperature 20°C/12°C, Water temperature from 10°C to 55°C					