



INVERTER POOL HEAT PUMP

STABLE SAVING





POWER MORE
COST LESS



The Most Stable DC Inverter

With Silenp's own-developed stable DC Inverter technology and reliable components, Silenp is possibly the most stable DC inverter pool heat pump.



Powerful

Provides sustainable powerful heating capacity before it reach the setpoint. It runs at maximum capacity as soon as they start up. The set temperature can be reached more quickly.



More Energy Saving

Once the pool temperature is getting close to the setpoint, the compressor starts to run at middle & lower speed which will save more energy bill.



Comfortable

Faster response to variable heating load, with less temperature fluctuation and more quiet running, it will bring you a comfortable extended pool season.



Mature DC Inverter Technology

SILENP adopts mature and stable DC INVERTER technology which is developed by our professional engineers who have more than 20 years experience of heat pump.

It varies the heating capacity by adjusting the frequency of compressor and speed of fan motor. Via optimal adjustment of inverter system to control the refrigerant (gas) flow rate, it consumes less current and power. SILENP inverter has precise temperature control. When pool temperature is getting close to setpoint, it heats up the pools at lower speed which offers higher efficiency (C.O.P.) and quieter operation.

Therefore, SILENP DC Inverter is energy-saving and more quiet than traditional On/Off pool heat pump.

Reliable Components

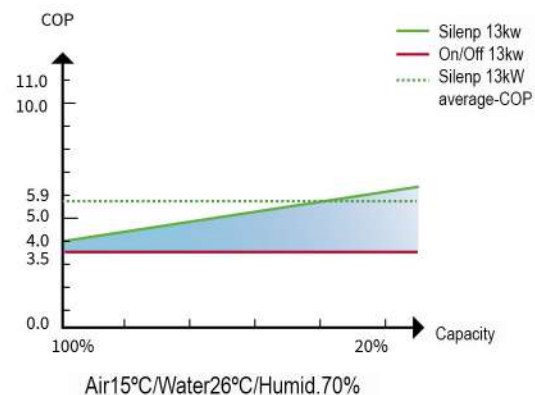
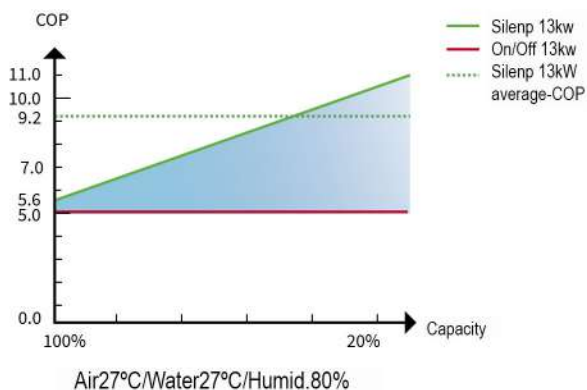


Saving 45% More Energy than On/Off

COP up to 11 (Air27°C/Water27°C/Humid.80%)

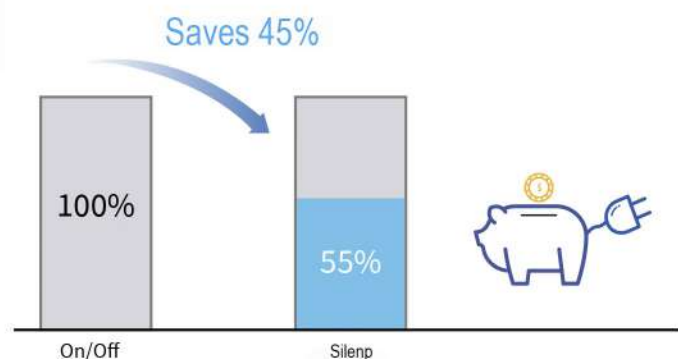
Silenp will adjust the heating capacity according to the pool temperature. When running at 20%-25% speed, it reaches the highest COP11. The average-COP at 50% speed is 8.8 at Air27°C/Water27°C, 6.1 at Air15°C/Water26°C.

PERFORMANCE



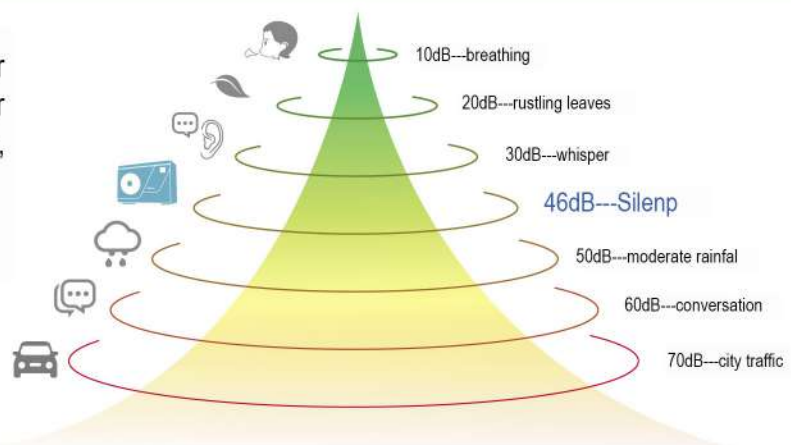
45% Energy Bill Reduction

The normal On/Off HP COP is around 5. With Silenp's average-COP 8.8, it can assist you to reduce 45% energy bill comparing to On/Off HP.



Silent Operation

Thanks to Silenp's stable DC inverter control system, DC inverter compressor and the optimized internal structure, Silenp runs very quietly which will provide you a comfortable heating environment.

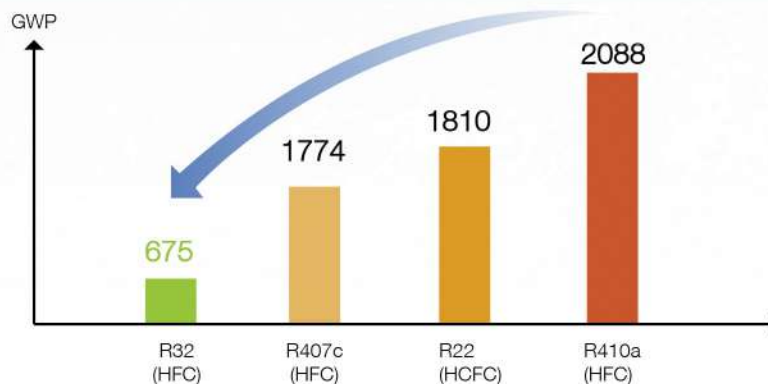




Eco-Friendly R32 Refrigerant

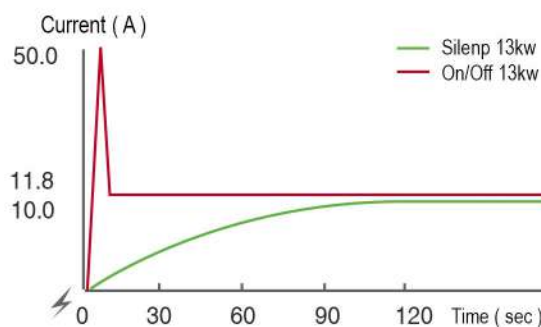
R32 is a new generation refrigerant for pool heat pump which is more efficient and has lower environmental impact.

Comparing with R410A refrigerant, its global warming potential (GWP) is 32%, CO2 emission and Gas quota cost is only 25%



Soft start & Wide Voltage Application

With DC Inverter compressor, Silenp starts from 0 Amps to rated Amps steadily. There is no strike to the house electricity system.



With its smart conversion, Silenp can be applied to a wide range of voltage which is 180-260V.

180~260V



Smart Wi-Fi APP

With smart Wi-Fi APP, you can see or control Silenp anywhere anytime.



SAVING IS EARNING



Parameter

Model	WP07	WP09	WP13	WP16	WP20	WP24
PERFORMANCE CONDITION: Air 27°C/ Water27°C/ Humid. 80%						
Heating capacity (KW)	7.0	9.0	13.0	16.0	20.2	24.2
COP Range	10.1~6	10.5~6.2	10.8~6.3	10.7~6.2	10.8~6.2	10.8~6.3
Average COP at 50% Speed	8.8	9	9.2	9.1	9.1	9.2
PERFORMANCE CONDITION: Air 15°C/ Water26°C/ Humid. 70%						
Heating capacity (KW)	5.0	6.5	9.0	11.0	14.0	16.0
COP Range	6.3~4.3	6.5~4.2	6.2~4.5	6.6~4.3	6.5~4.2	6.6~4.5
Average COP at 50% Speed	5.9	6.1	6.0	6.1	6.1	6.2
TECHNICAL SPECIFICATIONS						
Advised pool volume (m³) *	15~35	20~52	35~75	40~86	50~104	60~127
Operating air temperature (°C)	-7°C~43°C					
Casing	ABS Casing					
Heat exchanger	Twisted Titanium Heat Exchanger					
Power supply	230V/1 Ph/50Hz					
Rated input power (kW)	0.23~1.16	0.28~1.55	0.41~2.01	0.50~2.56	0.60~3.26	0.72~3.81
Input power at 50% Speed (kW)	0.42	0.53	0.75	0.90	1.15	1.29
Rated input current (A)	1.0~5.06	1.21~6.73	1.76~8.70	2.17~11.12	2.61~14.16	3.13~16.56
Maximum input current (A)	6.5	9.5	12.5	17.0	19.5	20.0
Power cord (mm²)	3×1.5	3×2.5	3×2.5	3×4	3×6	3×6
Sound level at 1m dB(A)	39.8~51.2	41.6~53.5	43.9~54.0	46.2~57.3	46.3~58.1	46.9~58.7
Sound level by 50% speed at 1m dB(A)	43.8	46.8	49.5	49.7	50.6	51.1
Sound level at 10m dB(A)	19.8~31.2	21.6~33.5	23.9~34	26.2~37.3	26.3~38.1	26.9~38.7
Advised water flux (m³/h)	2~4	3~5	4~6	6~8	7~10	10~12
Water connection (mm)	50					
Net weight (kg)	43	70	80	85	90	100
Net dimension LxWxH (mm)	872*349*654	872*349*654	872*349*654	962*349*654	962*349*754	961×420×758
PVPR	2.340€	2.735€	3.310€	3.930€	4.640€	5.350€

Remarks: * Advised pool volume applies to a private pool with isothermal cover, from April to September.
 ** The data above is only a reference, for specific data, please refer to the nameplate on the unit.



DISTRIBUTOR