

**MOOV**<sup>TM</sup>  
POOL PRODUCTS

**Inverter**

The newest technology  
for Pool heat pumps.



moovpool.com

**50%**

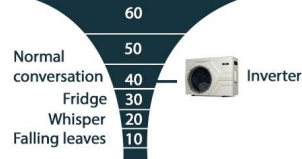
**Higher energy saving**

Lowest operation cost  
and highest efficiency

**48dB(A)**

**at 1m**

Unparalleled sound level

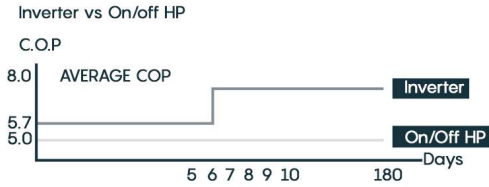


## Why Inverter Technology?



Powered by Inverter Technology, the Inverter can adjust heating capacity from 20% to 100% intelligently according to different heating demands.

When seasons starts and heating demand is high. the Inverter runs at 100% compressor & fan speed for fast heating. When maintaining the pool temperature. the Inverter runs at low speed for energy saving with higher COP and lower sound pressure.



## 50% Higher energy saving

Average COP 8 at 50% capacity, Max. COP of 10

The AVERAGE COP is 8 at Air 80°F / Water 80°F / Humidity 80%, which means 1kW of electricity consumption can provide up to 8kW heat in return. Traditionnal On/Off heat pumps usually provide 5kW heat as their COP is just around 5.

## Average 7 times quieter

Average sound pressure 48 dB(A) at 1m

Thanks to the quiet DC Full-Inverter Compressor, the Moov Inverter will offer you the most quiet operating sound range of its category.

## Soft start



When the inverter turns on. the current will start from 0 A and go up gradually to rated current in under 2 minutes. This won't affect the house electrical system compared to traditional heat pumps which start at a higher current and therefore have a higher energy consumption.

## Other perks

### Twin-rotary DC inverter compressor

Based on "Twin mechanism" innovative solution, two rotors operate together to balance the torque for anti-shaking. It leads to higher efficiency & quieter operation.

### Spiral titanium heat exchanger

Enlarge 30% heat exchanging surface

### HP-BOOSTER technology

Enable COP 20% higher than On/Off HP in the market



Moov Inverter	MI500	MI650	MI900	MI1100	MI1400
Maximum Pool Volume (Gallons)	< 14 000	< 18 000	< 28 000	< 32 000	< 42 000
Maximum Pool Volume (Litres)	< 52 000	< 68 000	< 105 000	< 120 000	< 155 000
Operating air temperature (°F)	32 - 109				
Performance Condition: Air 80°F/ Water 80°F/ Humidity 80%					
Heating capacity (Btu)	50,000	65,000	90,000	110,000	140,000
Heating capacity (Btu) in silence mode	40,000	52,000	72,000	88,000	112,000
C.O.P	10.6-5.98	11.2-5.61	13.6-6.0	13.5-5.8	13.1-5.8
Performance Condition: Air 80°F/ Water 80°F/ Humidity 63%					
Heating capacity (Btu)	47,500	61,000	85,000	104,000	132,000
Heating capacity (Btu) in silence mode	37,200	48,800	68,000	83,500	105,500
C.O.P	9.7-5.5	9.9-5.35	12.3-5.7	12.2-5.6	11.0-5.7
Performance Condition: Air 50°F/ Water 80°F/ Humidity 63%					
Heating capacity (Btu)	28,900	37,000	54,000	67,000	85,000
Heating capacity (Btu) in silence mode	20,295	26,970	43,000	54,000	68,000
C.O.P	5.1-4.15	5.2-4.3	5.5-4.3	5.2-4.2	5.2-4.1
Rated input power (kW) at air 80°F	0.46-2.53	0.53-3.39	0.54-4.39	0.61-5.9	0.85-6.85
Rated input current (A) at air 80°F	2.00-11.0	2.30-14.8	2.34-19.1	2.65-25.6	3.69-29.8
Fuse (A)	20	30	30	40	50
Power supply	208-230V / 1pH / 60Hz				
Advised water flux (L/min)	83-116	108-142	125-158	133-167	133-254
Sound pressure 3m dB(A)	34.9-46.0	38.2-47.3	37.5-49.0	35.5-49.5	39.6-51.2
Heat exchanger	Titanium in PVC				
Casing	ABS casing			ABS + Metal	
Air discharge	Horizontal			Vertical	
Water pipe in-out Spec (inch)	1 1/2"			2"	
Net Dimension LxWxH (Inch)	37.8x13.4x25.9	37.8x16.5x25.9	43.0x16.5x37.7	37.2x27.3x38.5	32.0x37.7x42.0
Net Weight (lbs.)	114	134	229	251	317
Warranty Parts & Labor	3 years				
Warranty Titanium Heat Exchanger and Compressor (Part)	5 years				

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The heat pump's efficiency varies with climatic conditions, setup and other factors such as the average pool temperature desired. Please consult a pool expert first to confirm the right product for your needs.