

The newest technology
for Pool heat pumps.



50%

Higher energy saving

Lowest operation cost
and highest efficiency

48dB(A)

at 1m

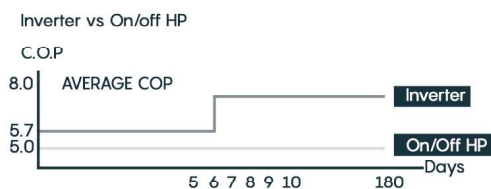
Unparalleled sound level



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

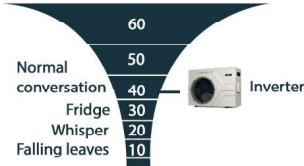
Average COP 8 at 50% capacity, Max. COP of 10

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. Traditional 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



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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.

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				