

MOOV™
POOL PRODUCTS

Inverter

2022

The **newest** technology
for Pool heat pumps.



POOL PRODUCTS

moovsa.com

50%

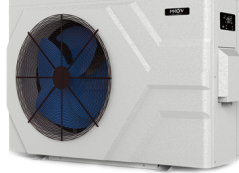
Higher energy saving

Lowest operation cost
and highest efficiency


48dB(A)

at 1m

Unparalleled sound level



60	
Normal conversation	50
Fridge	40
Whisper	30
Falling leaves	20
10	

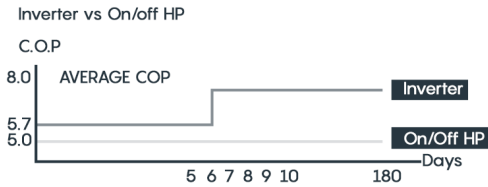


Inverter

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. COPIO

The AVERAGE COP of the Inverter is 8 at Air 80°F / Water 80°F / Humidity 80%, which means 1kW electricity consumption can provide up to 8kW heat in return. While On/Off HP can only provide 5kW heat as its COP is just around 5.

Average 7 times quieter

Average sound pressure 48 dB(AJ at 1m

Thanks to quiet DC inverter compressor. low-speed running philosophy of compressor & fan motor. the Inverter can offer you super quiet operation by 7dB(AJ lower sound pressure at AVERAGE 50% capacity.



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	FI500	FI650	FI900	FI1100	FI1400
Recommended Pool Volume (gallons)	< 14 000	< 18 000	< 28 000	< 32 000	< 42 000	
Recommended 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	37.2x35.6x38.5	39.4x37.7x37.0	
Net Weight (lbs.)	114	134	229	251	317	
Warranty Parts & Labor			3 years			
Warranty Titanium Heat Exchanger and Compressor (Part)			5 years			