MOOV™ POOL PRODUCTS | Inverter

2021

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

MOOV POOL PRODUCTS

moovsa.com

50%

Higher energy saving

Average cop 8, max. 10
(Air 80°F/ Water 80°F/ Humidity 80%)

7x

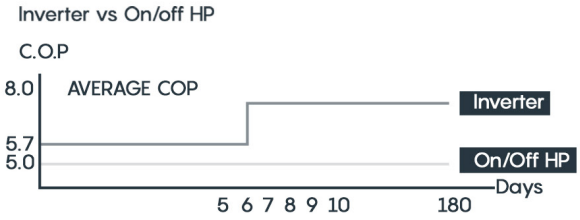
Times quieter

Average 48 dB(A) at 1m

Why Inverter Technology?

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

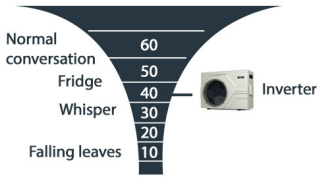
When seasons starts and heating demand is high, the Inverter runs at 100% compressor & fan speed for fast heating. When maintaining the pool temperature, the Inverter runs at low speed for energy saving with higher COP and lower sound pressure.



50% Higher energy saving

Average COP 8 at 50% capacity, Max. COP10

The AVERAGE COP of the Inverter is 8 at Air 80 °F / Water 80° F / Humitidy 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(A) 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(A) 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 Advantages

Twin-rotary DC inverter compressor

Based on "Twin mechanism" innovative solution, two rotors operate togheter 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

AHRI CERTIFIED® www.ahridirectory.org
Heat Pump Pool Heaters
AHRI Standard 1160

Model	FI500	FI650	FI900	FI1100
Applied pool volume (gallons)	≤ 14 000	≤ 18 000	≤ 28 000	≤ 39 000
Operating air temperature (F°)	32 - 109			
Performance Conditions: Air 80°F/ Water 80°F/ Humidity 80%				
Heating capacity (Btu)	50,000	65,000	90,000	105,000
Heating capacity (Btu) in silence mode	40,000	52,000	72,000	84,000
C.O.P	10.6-5.98	11.2-5.61	11.0-5.6	11.5-5.8
Performance Conditions: Air 80°F/ Water 80°F/ Humidity 63%				
Heating capacity (Btu)	47,500	61,000	84,500	99,300
Heating capacity (Btu) in silence mode	37,200	48,800	67,500	80,000
C.O.P	9.7-5.5	9.9-5.35	9.8-5.3	10.9-5.5
Performance Conditions: Air 50°F/ Water 80°F/ Humidity 63%				
Heating capacity (Btu)	28,900	37,000	54,000	67,000
Heating capacity (Btu) in silence mode	20,295	26,970	43,200	55,500
C.O.P	5.1-4.15	5.2-4.3	5.3-4.2	5.3-4.3
Rated input power (kW) at air 80°F	0.46-2.53	0.53-3.39	0.71-4.54	0.87-5.3
Rated input current (A) at air 80°F	2.00-11.0	2.30-14.8	3.08-19.7	3.78-23.0
Fuze (A)	20	25	30	35
Power supply	208-230V / 1pH / 60Hz			
Advised water flux (L/min)	83-116	108-142	125-158	133-167
Sound pressure 3m dB(A)	34.9-46.0	38.2-47.3	37.5-49.0	35.5-49.5
Heat exchanger	Titanium in PVC			
Casing	ABS casing			
Air discharge	Horizontal			Vertical
Water pipe in-out Spec (mm)	48			
Net dimension LxWxH (Inch)	37.8x13.4x25.9	37.8x16.5x25.9	43.0x16.5x37.7	39.3x27.1x37.0
Net weight (lbs.)	115	137	198	270
Warranty on parts and labor	2 year			3 year
Warranty on the air exchanger	5 year			

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