

SPECIFICATIONS

Model	FI300	FI400	FI500	FI650	FI1100
Applied pool volume (gallons)	≤8000	≤11000	≤14000	≤18000	≤39000
Operating air temperature (°F)	32~109				
Performance Condition: Air 80°F/ Water 80°F/ Humidity 80%					
Heating capacity (Btu)	30,000	40,000	50,000	65,000	105,000
Heating capacity (Btu) in silence mode	24,000	32,000	40,000	52,000	85,000
COP	10.0~5.8	10.3~6.0	10.6~5.98	11.2~5.61	10.5~5.2
Performance Condition: Air 80°F/ Water 80°F/ Humidity 63%					
Heating capacity (Btu)	28,500	38,255	47,500	56,000	99,300
Heating capacity (Btu) in silence mode	22,800	31,000	37,200	44,800	80,000
COP	9.0~5.4	9.1~5.86	9.7~5.5	9.9~5.35	9.7~5.1
Performance Condition: Air 50°F/ Water 80°F/ Humidity 63%					
Heating capacity (Btu)	18,300	24,500	28,900	37,000	67,000
Heating capacity (Btu) in silence mode	14,600	15,000	20,295	26,970	55,500
COP	4.4~4.0	4.5~4.0	5.1~4.15	5.2~4.3	4.7~4.0
Rated input power (kW)	0.2~1.5	0.23~1.95	0.28~2.45	0.34~3.4	0.59~5.92
Rated input current (A)	0.86~6.52	1~8.48	1.22~10.65	1.48~14.78	2.57~25.74
Power supply	208-230V/1 Ph/60Hz				
Advised water flux (L/min)	50~67	67~100	83~116	108~142	133~167
Sound pressure 3m dB(A)	33.4~45.2	33.6~45.5	34.9~45.0	38.2~49.3	35.5~47.5
Heat exchanger	Titanium in PVC				
Casing	ABS casing				Galvanized steel
Air discharge	Horizontal				Vertical
Water pipe in-out Spec (mm)	48				
Net Dimension LxWxH (mm)	864x359x648	961x349x658	961x349x658	961×390×658	710x890x1100
Net Weight (lbs.)	101	126	150	172	270
Qty per 20'FT / 40'HQ (sets)	102/216	90/198	90/198	78/165	17/72
* The values indicated are valid under ideal conditions: Pool is well covered, filtration system running at least 15 hours a day. * Above data is subject to modification without notice.					

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INVERTER POOL
HEAT PUMP
IN NORTH
AMERICA

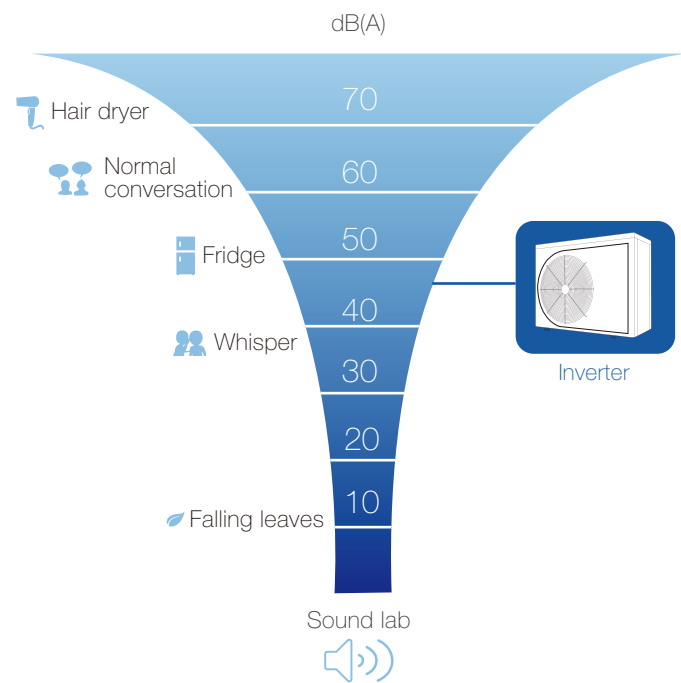
7 TIMES QUIETER
AVERAGE 48 dB(A) at 1m

50% HIGHER
ENERGY SAVING
AVERAGE COP 8, Max. 10
(Air 80°F / Water 80°F/ Humidity 80%)

Why Inverter Technology

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

When season 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.



AVERAGE 7 Times Quieter

-AVERAGE sound pressure 48 dB(A) at 1 m

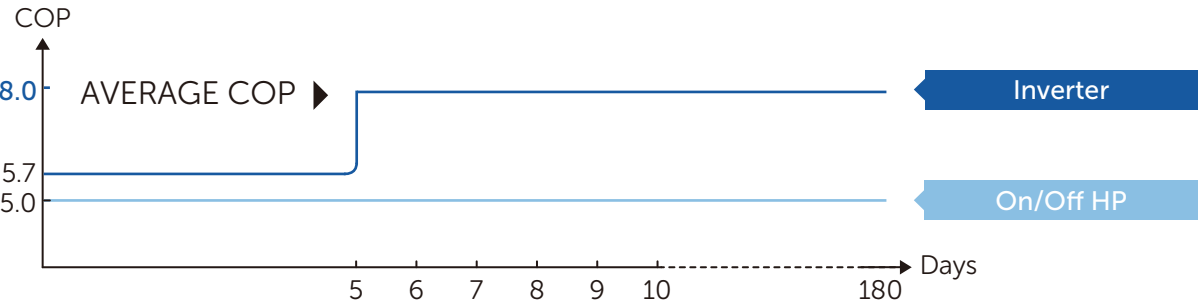
Thanks to quiet DC inverter compressor, low-speed running philosophy of compressor & fan motor, the Inverter can offer you super quiet operation by 7dB(A) lower sound pressure at AVERAGE 50% capacity.

50% Higher Energy Saving

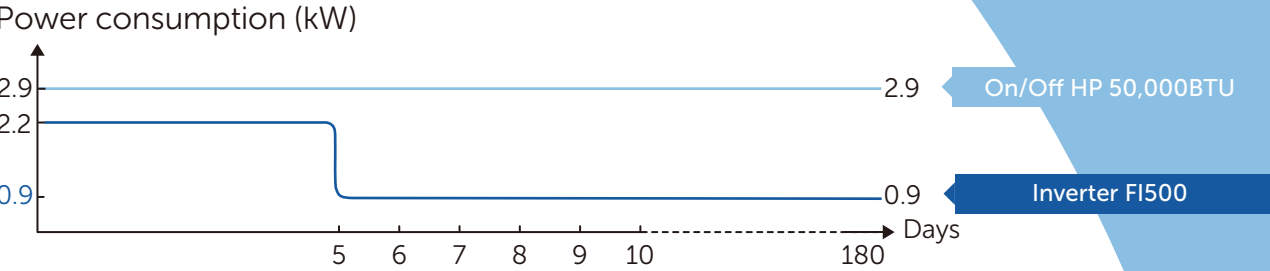
-AVERAGE COP 8 at 50% capacity, Max. COP10

The AVERAGE COP of the Inverter is 8 at Air 80°F / Water 80°F / 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.

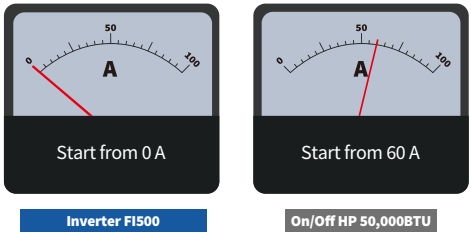
Inverter vs On/Off HP (in 180 days pool season)



AVERAGE power consumption (in 180 days pool season)
(e.g. 50,000BTU at Air 80°F / Water 80°F / Humidity 80%)



Soft Starter

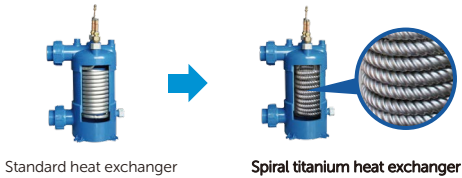


When the inverter turns on, the current will start from 0 A and go up slowly to rated current in 2 minutes. It will not affect the house electricity system, while the frequent start current of On/Off HP is 5 times of rated current, it is a burden to the electricity system.

Other Advantages



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