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Full Inverter Swimming Pool Heat Pump FI Series



FULL INVERTER SWIMMING POOL HEAT PUMP FI SERIES

LASWIM full inverter swimming pool heat pump FI series is featured with its mature stepless DC inverter technology. It adopts stepless inverter compressor, stepless inverter control system and brushless fan motor. By smart conversion of compressor speed, fan motor speed and system pressure, this FI series heat pump can provide amazing energy saving and silent performance.

Stepless DC Inverter

LASWIM full inverter series core technology is stepless DC inverter. It adopts stepless inverter compressor and DC brushless fan motor. The speed can be adjusted as low as one hertz and one round, which provides amazing energy saving and super silence performance.

Intelligent protection

Can adapt to wide voltage of 180V~260V and adjusts the system in different tough conditions, For example, if there is electricity fluctuation or during electricity peak period, the system can slow down intelligently for comfortable operation. Thus, it brings longer service life than normal on/off heat pump.

Specially designed inverter control system

The control system is specially designed for pool heating. It can adjust the heating capacity precisely according to different heating losses in the swimming season. The design philosophy is to achieve fast heating at high speed in the beginning of the season, and slow down at middle & low speed when the pool water reaches the target temperature, for better energy saving and silent performance in the rest of the season.

1.Average COP 9.5

- (Air 27°C/Water 27°C)
- When maintaining pool temperature at 95% of pool season, this FI series HP is running by average 50% capacity which leads to the best energy saving performance and most silent pool environment. Its average COP at 50% speed is 9.5 at air 27°C/ water 27°C, and 6.2 at air 15°C/ water 26°C.

2.Double energy saving

- For example, use a 13KW FI series heat pump to heat up a pool of 50m³ for 1°C, it can save 1012KW more energy consumption than using a 13KW On/Off heat pump in one swimming season, it is nearly double energy saving!

3. Comfortable silence

- Thanks to the full inverter technology, stepless DC inverter compressor, stepless inverter control system and DC brushless fan motor, this full inverter series runs very quietly and provides you a comfortable environment.

4. Soft start & wide voltage application

- With DC inverter compressor, full inverter heat pump starts from 0Amps to rated Amps slowly and steadily. There is no strike to the house electricity system. And with its smart conversion, this full inverter series can be applied to wide range of voltage which is 180~260V.

5. Smart Wi-Fi control

- With a smart Wi-Fi App, you can check or control your heat pump at any time and anywhere.

Model	LAS07-KP-FI	LAS09-KP-FI	LAS13-KP-FI	LAS16-KP-FI	LAS20-KP-FI	LAS24-KP-FI
PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humid. 80%						
Heating capacity (kW)	7	9.2	13	16	20.2	24.2
COP Range	13~6.4	13.1~6.5	13.4~6.6	13.4~6.5	13.5~6.5	13.8~6.6
Average COP at 50% Speed	9	9.5	9.8	9.6	9.5	9.6
PERFORMANCE CONDITION: Air 15°C/ Water 26°C/ Humid. 70%						
Heating capacity (kW)	5	6.4	9	11	14	16
COP Range	6.8~4.5	6.9~4.4	7~4.8	7~4.6	7~4.5	7.2~4.8
Average COP at 50% Speed	6.2	6.2	6.4	6.2	6.2	6.4
TECHNICAL SPECIFICATIONS						
Advised pool volume (m ³) *	15~30	20~45	35~65	40~75	50~90	60~110
Operating air temperature (°C)	-5°C~43°C					
Heat exchanger	Twisted Titanium Heat Exchanger					
Power supply	230V / 1Ph / 50Hz					
Refrigerant	R32					
Material	Aluminium alloy					
Rated input power (kW)	0.20~1.1	0.26~1.44	0.34~1.92	0.44~2.44	0.56~3.1	0.60~3.32
Input power at 50% Speed (kW)	0.41	0.52	0.7	0.9	1.13	1.25
Rated input current (A)	0.85~4.74	1.12~6.28	1.50~8.32	1.92~10.63	2.44~13.54	2.62~14.49

Maximum input current (A)	6.5	8	12.5	17	19.5	20
Power cord (mm ²)	3×1.5	3×1.5	3×2.5	3×4	3×6	3×6
Sound level at 1m dB(A)	37.8~49.2	39.6~51.5	41.9~52.0	44.2~55.3	44.3~56.0	44.9~56.7
Sound level by 50% speed 1m dB(A)	41.8	44.8	47.5	47.6	48.6	49
Sound level at 10m dB(A)	17.9~29.2	19.6~31.4	22~32	24.2~35.4	24.3~36.2	24.9~36.6
Advised water flux (m ³ /h)	2~4	3~5	4~6	6~8	7~10	10~12
Water connection (mm)	50					
R32 Net weight (Kg)	400	550	900	1000	1100	1300
Gross weight (kg)	47	52	55	67	76	78
Net weight (kg)	42	46	49	60	68	68
Net dimension L*W*H(mm)	744*359*648	864*359*648	864*359*648	954*359*648	954*359*748	954*429*755
Loading quantity of 20ft /40 HQ (sets)	114/252	102/216	102/216	90/198	60/198	48/104

Remarks:

* The above data will be subject to change without further notice, please refer to the nameplate on the unit.

* Advised pool volume applies to a private pool with an isothermal cover, from April to September.

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