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Full Inverter Swimming Pool Heat Pump FIQ Series



FULL INVERTER SWIMMING POOL HEAT PUMP FIQ SERIES

LASWIM full inverter swimming pool heat pump FIQ series is specially designed for silent and comfortable user experience, with COP up to 15 while sound level is down to 42dB. Thanks to the DC inverter compressor, stepless inverter control system and brushless fan motor, the speed can be adjusted Hz and round by round, to achieve energy saving and super silence.

1. Super silence

*Unique backward airflow helps to provide comfort silence swimming experience, It adopts invisible fan to draw air from two sides and exhaust out from back side to eliminate every possible noise to realize silence and comfort, and achieve a sound level down to 42dB(A) at 1m, 10dB(A) lower than On/Off heat pump.

2. COP up to 15

*FIQ series heat pump runs at middle & speed to maintain pool temperature for 95% of swimming season, COP can be up to 15.

3. Energy saving

*With low-speed running most of the time, FIQ series heat pump is double energy saving than On/Off heat pump, as it will adjust the operating speed of its compressors and fan motors automatically according to the heating or cooling demand.

4. Soft start & wide voltage application

*The input current will start from 0 Amps to rated Amps steadily. More friendly to house electricity system. FIQ series heat pump can be also adapted to wide voltage from 180~260V.

5. Built-in Wi-Fi function

*With Wi-Fi function, you can control your heat pump with a smart APP on the phone easily at anywhere and anytime.

Model	LAS07-KP-FIQ	LAS09-KP-FIQ	LAS13-KP-FIQ	LAS16-KP-FIQ	LAS20-KP-FIQ	LAS24-KP-FIQ
Performance condition: Air 27°C/ Water 27°C/ Humid.80%						
Heating capacity(kw)	6.8	9	12.6	16.1	20	24
COP Range	13.5-6.3	14.0-6.5	14.0-6.4	15.0-6.5	15.0-6.5	14.5-6.4
Average COP at 50% Speed	9.2	9	9.5	9.6	9.3	9.6
Performance condition: Air 15°C/ Water 26°C/ Humid.70%						
Heating capacity(kw)	5	6.5	9	11	14	16.2
COP Range	6.8-4.3	6.8-4.5	7.0-4.4	7.0-4.5	7.0-4.6	7.2-4.5
Average COP at 60% Speed	6.1	6.2	6.3	6.3	6.2	6.3
Technical specifications						
Advised pool volume(m ³)	15-30	20-50	30-60	40-75	50-90	60-110
Operating air temperature(°C)	-5°C~43°C					
Compressor	Twin-rotary Mitsubishi DC Compressor					
Heat exchanger	Twisted Titanium Heat Exchanger					
Power supply	220-240V /1Ph/ 50-60Hz					
Refrigerant	R32					
Material	ABS+Aluminum-alloy Casing					
Rated input power(kw)	0.18-1.17	0.24-1.45	0.32-2.10	0.39-2.50	0.5-3.10	0.56-3.70
Input power at 50% Speed(kw)	0.41	0.53	0.72	0.88	1.13	1.29
Rated input current(A)	0.79-5.10	1.05-6.40	1.40-9.00	1.70-10.70	2.18-13.3	2.45-16.1
Maximum Input current(A)	7.5	8.5	10.5	15.5	18	20
breaker rated current(A)	9	10	13	18	21	24
Power cord(mm ²)	3*1.5	3*1.5	3*2.5	3*2.5	3*4	3*6
Sound level at 1m dB(A)	38.5-48.0	39-48.4	42.2-50.8	41.2-54.4	43.4-54.1	41.6-56.0
Sound level by 50% speed 1m dB(A)	41.2	41.6	45.8	45.9	46.8	47.3
Sound level at 10m dB(A)	18.5-28.0	19.0-28.4	22.2-30.8	21.2-34.4	23.4-34.1	21.8-36.0

Advised water flux(m³/h)	2-4	2-4	4-6	6-8	7-10	10-12
Water connection(m m)	50					
R32 Net weight(g)	500	550	750	800	1000	1200
Net weight/Gross Weight(kg)	56/67	58/67	61/70	64/72	70/80	80/90
Net dimension L*W*H(m m)	890*430*657	890*430*657	890*430*657	890*430*657	1060*430*657	1060*430*757
Qty per 20'FT/40'HQ(sets)	78/177	78/177	78/177	78/177	72/150	48/150

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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