



SWIMMING POOL INVERTER HEAT PUMP

DC Inverter Technology

The core of DC inverter technology is the frequency conversion control system, which drives the DC inverter compressor to operate in units of Hertz (Hz) by controlling the operating speed and frequency of the compressor. Adjust the operating speed and frequency of the compressor in real time according to changes in the ambient temperature and water temperature, so that the equipment can achieve optimal performance.

The whole system operates with frequency conversion. The DC inverter technology allows the heat pump to operate at the highest frequency at the beginning of the initial heating of the swimming pool, so that the whole machine completes the initial heating of the pool water at the highest heating rate, and the later pool water constant temperature equipment operates at a low frequency of the compressor to maintain a high COP. Energy-efficient operation reduces equipment energy consumption and maintains a constant pool water temperature.

Therefore, compared with the fixed frequency swimming pool heat pump, the DC frequency conversion consumes less than half of the running energy, which is more in line with the concept of green and energy-saving life.

AQS-F

Suitable for swimming pool heating, constant temperature and cooling in various places.



- DC inverter compressor, high efficiency, energy saving, quiet and comfortable.
- High-efficiency pure titanium tube heat exchanger with external thread, the temperature rises rapidly.
- Electronic expansion valve, the throttling control is more precise.
- Four-way valve to switch, the defrosting is faster and the heat loss is reduced.
- Flexible setting, automatic control of heating mode, energy saving and low noise, all-weather operation.
- Multiple protections, safe and reliable, built-in water flow protection, compressor exhaust temperature protection, compressor high and low pressure protection, compressor over current, winter anti-freezing protection.

Control panel

F type control panel



Waterproof box control panel, LCD display, simple and elegant.

B-F

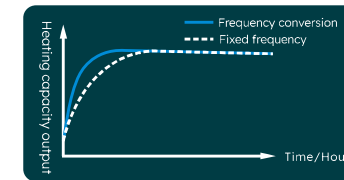
Suitable for swimming pool heating, constant temperature in various places.



- DC frequency conversion technology, swimming pool heating and temperature control more energy-saving and efficient.
- Large LED screen, display running status.
- Intelligent mode operation, fast heating mode, energy-saving mode, strong heat mode 30% more heat than fixed frequency unit.
- Late night silent mode operation, without disturbing people.



< Frequency conversion constant temperature technology >



The initial heating speed is increased by 30%

Constant temperature difference $\pm 0.5^{\circ}\text{C}$

Energy saving 20%

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AQS Series Swimming Pool Inverter Heat Pump

Model	AQS-015-F	AQS-030-F	AQS-050-F	
Ambient Condition: Temperature 26°C, Humidity 80%, Water temperature 28°C				
Heating Capacity	kW	9.0	16.0	24.0
COP Range	W/W	5.5-10.2	5.8-11	5.8-11
100% Heating COP	W/W	5.50	5.80	5.80
Ambient Condition: Temperature 15°C, Humidity 70%, Water temperature 28°C				
Heating Capacity	kW	6	11	16.5
COP Range	W/W	4.5-6	4.6-6.2	4.6-6.2
100% Heating COP	W/W	4.50	4.60	4.60
Ambient Condition: Temperature 35°C, Humidity 80%, Water temperature 7°C				
Cooling Capacity	kW	4.5	7	12
Compressor	/	DC Inverter Compressor		
Power Supply	/	220V/1Ph/50Hz		
Power Input	kW	0.32-1.64	0.54-2.92	0.81-4.36
Current	A	1.45-7.45	2.45-13.27	3.68-19.81
Heat Exchanger	/	External Threaded Titanium Tube Heat Exchanger		
Noise (1m)	dB(A)	≤50	≤52	≤53
Connection Size	mm	DE50 Union	DE50 Union	DE50 Union
Water Flow	m ³ /h	3-4	5-7	9-11
Refrigerant	/	R410A		
Dimensions (L*W*H)	mm	870*350*670	1000*400*750	1050*450*810
Weight	kg	50	65	78
Operating Temperature Range	°C	-12-45		

* The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

B-F Series Swimming Pool Inverter Heat Pump

Model	B-175-F	B-200-F	B-350-F	B-400-F	B-600-F	
Ambient Temp.: (DB/WB): 27°C/26°C, Water Temp.: (In/Out): 26°C/28°C						
Heating Capacity	kW	28-78	38-90	68-158	82-190	115-290
Heating COP	W/W	6.5-11.5	6.8-11.6	5.8-11.8	5.8-11.8	5.8-11.5
Heating Power Range	kW	3.2-14.3	6.3-18.2	8.5-32.5	9.2-35.2	15.2-45.5
Ambient Temp.: (DB/WB): 20°C/15°C, Water Temp.: (In/Out): 26°C/28°C						
Heating Capacity	kW	25-65	35-78	50-130	75-175	102-248
Heating COP	W/W	4.6-7.5	4.6-7.5	4.6-7.5	4.6-7.5	4.6-7.3
Heating Power Range	kW	4.2-12.8	5.6-16.5	7.8-29.5	8.8-32.5	14.3-42.3
Compressor	/	DC Inverter Scroll Type				
Power Supply	/	380V/3N-/50Hz				
Max. Current Input	A	28.2	40.2	68.8	72.0	87.1
Max. Power Input	kW	15.8	22.5	38.5	40.3	48.7
Noise	dB(A)	58	62	72	72	74
Connection Size	mm	DE63 Union	DE75 Flange	DE90 Flange	DE90 Flange	DE110 Flange
Water Flow	m ³ /h	13	22	28	42	58
Water Pressure Drop	kPa	45	48	53	58	60
Refrigerant	/	R410A				
Dimensions (L*W*H)	mm	1580*900*1660	1580*900*1660	1926*1056*2190	2126*1106*2200	2450*1302*2260
Weight	kg	185	256	582	720	946
Operating Temperature Range	°C	-15-48				

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