

AIR TO WATER COMMERCIAL HEAT PUMP







HEAT PUMP PRODUCT FAMILY

Commercial DC Inverter EVI air to water heat pumps





Model: HW075B

- Heating capacity: 75kW
- Cooling capacity: 65kW
- Stepless capacity output
- DC Inverter EVI technology
- Modular control

Model: HW150B

- Heating capacity: 150kW
- Cooling capacity: 130kW
- Stepless capacity output
- DC Inverter EVI technology
- Modular control

Commercial EVI air to water heat pumps





Model: HW300A

- Heating capacity: 300kWCooling capacity: 260kW
- EVI technology
- Modular control







COMMERCIAL DC INVERTER AIR TO WATER HEAT PUMP









- DC Inverter EVI compressor, ensures stable running and enhanced heating capacity in harsh conditions.
- DC Inverter fan motor, for higher efficiency and less noise.
- High efficiency BPHE, offers smaller size with higher performance.
- EEV with smart control, enables precise flow control for a better performance.

Product details:

- 1 DC Inverter fan motor
- 2 DC Inverter compressor
- 3 Accumulator
- 4 Economizer
- Fan motor inverter
- 6 PCB main controller
- 🕜 Compressor inverter
- 8 Liquid receiver
- BPHE



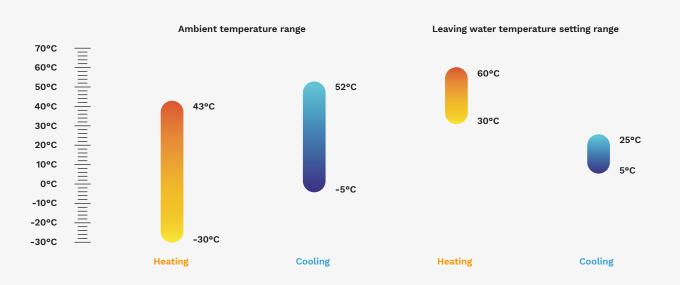






FEATURES

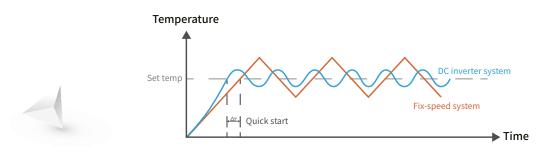
Wide operation range



DC Inverter EVI technology

Stable water temperature improves comfort and efficieny

DC Inverter compressor adjusts its speed according to the difference of setting temperature and actual temperature automatically, thus makes the actual water temperature waves slightly around set temperature.



Quick response

By increasing frequency of compressor, inverter system can get a higher heating capacity, and reach setting temperature in less time compared with fix-speed system.

Avoiding frequent start/stop

Inverter system automatically match the setting temperature by adjusting speed of compressor, that means compressor's start/stop cycles will decrease obviously.

Quiet operation

Most of the time, the speed of compressors remain in a middle or lower level since the required capacity is low than the peak capacity, it contribute to the quiet operation and energy saving.

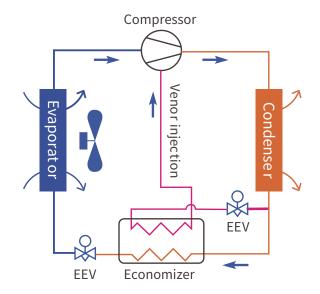




FEATURES

EVI technology

EVI means enhanced vapor injection, in harsh conditions (low ambi- ent temperature and high outlet water temperature), this technology can improve heating capacity and saving energy, in the meantime, it can decrease discharge temperature of compressor and make sure the stable operation.



Modular Control

Modular control can allow one wired controller to control up to 16 units, and the units are standby for each other, running alternately, improving the stability of the system and prolonging the service life of the units. When a unit fails, it will not affect the operation of other units.





FEATURES

Model			HW075B	HW150B	HW300A
Power supply		V/Ph/Hz	380-415/3/50		
Heating ¹	Capacity	kW	80	160	318
	Rated input	kW	19.6	39.3	84.8
	COP	kW/kW	4.08	4.07	3.75
Heating ²	Capacity	kW	75	150	300
	Rated input	kW	23	46	94.3
	COP	kW/kW	3.26	3.26	3.18
SCOP-Average climate, low temperature		kW/kW	4.19	4.18	-
Energy class			A++		
Cooling ³	Capacity	kW	65	130	338
	Rated input	kW	14.9	29.9	97.2
	EER	kW/kW	4.36	4.35	3.48
Cooling ⁴	Capacity	kW	65	130	260
	Rated input	kW	23.8	47.7	89.6
	EER	kW/kW	2.73	2.72	2.9
Sound pressure Level ⁵		dB(A)	65	68	73
Refrigerant		type	R410A		
Compressor		type	DC Inverter EVI twin rotary		EVI Scroll
		Quantity	2	4	4
Water side heat exchanger		type	ВРНЕ		Shell and tube
Fan		type	DC Inverter Axial Fan		Axial Fan
		Quantity	2		4
Net dimension (W×H×D)		mm	1860×2080×920	2170×2290×1200	2730×2410×2090
Net weight		kg	500	960	2040
Water piping connection		size	Rc 2	Rc 2 1/2	Flange 4"
Nominal water flow		m³/h	11.2	22.4	51.6
Water pressure drop		kPa	60	60	55
Ambient temperatu- re range	Cooling	°C	-5~52		15~48
	Heating	°C	-30~43		-30~43
LWT setting range	Cooling	°C	5~25		5~20
	Heating	°C	30~60		30~60

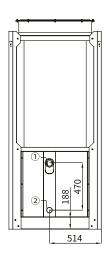
Notes:

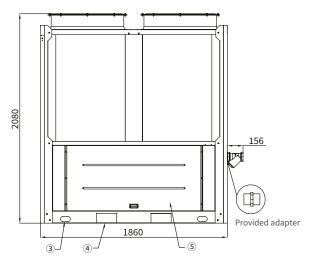
- 1. 2. 3. 4. 5.
- Outdoor air temperature 7°C DB, 6°C WB; Water inlet 30°C, Water outlet 35°C. Outdoor air temperature 7°C DB, 6°C WB; Water inlet 40°C, Water outlet 45°C. Outdoor air temperature 35°C DB; Water inlet 23°C, Water outlet 18°C. Outdoor air temperature 35°C DB; Water inlet 12°C, Water outlet 7°C. Testing distance: 1m.

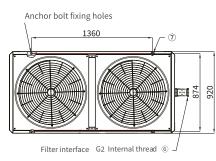


HW075B

Price:







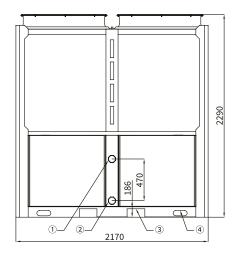
Unit:mm

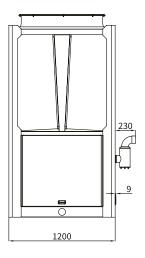
- ① DN50 water inlet (R2 Internal thread)
- ② DN50 water outlet (R2 internal thread)
- ③ Lifting hole
- 4 Forklift hole

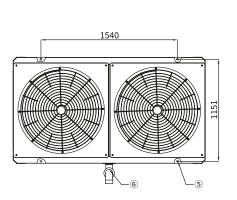
- ⑤ Electrical control box
- 6 Brass filter
- ⑦ Anchor bolt fixing holes

HW150B

Price:







Unit:mm

- ① Water inlet (G2-1/2 Internal thread)
- ② Water outlet (G2-1/2 internal thread)
- ③ Forklift hole

- 4 Lifting hole
- ⑤ Anchor bolt fixing holes
- 6 Stainless steel filter

^{*}All dimensions in mm.



HW300A

Price:

