

[Low Ambient Temp EVI Air Source Heat Pump](http://www.heatpumpsupply.com) [Http://www.heatpumpsupply.com](http://www.heatpumpsupply.com)

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Air Source Heat Pump »

Low Ambient Temp EVI Air Source Heat Pump



Features and Advantages of the Low Ambient Temp EVI Air Source Heat Pump

1. Our EVI air source heat pump is specially designed for house heating in cold area. The ambient temperature range is -25°C to 43°C . It can be used safely in -20°C ambient.
2. In comparison with normal heat pump which presents difficulty in heating below -5°C , our EVI technology importantly increases refrigerant flow of the main loop and outside evaporation enthalpy difference brings 7% to 34% additional heating.
3. It features a strong low-temperature heating capacity.
4. EVI air source heat pump significantly improves the problem of insufficient flow of refrigerant in low-temperature environment by the secondary compressor suction, making it useful even if the outdoor temperature is as low as -20°C and without obvious thermal decay problem.
5. Although EVI heat pump costs more than normal heat pump, but it brings you more benefits on the base of total cost as it eliminates the initial investment for central heating device and the operating cost is extremely low.
6. The heating capacity is 11.16-36.3.1kW, for hot water outlet is $30-65^{\circ}\text{C}$, making it suitable for central heating and sanitary hot water.
7. The Emerson Expansion Valve keeps the system's pressure in balance with America Copeland Compressor.
8. Our heat pump features compact design, easier installation and takes up less space.
9. It adopts thermal insulation for all pipes with low heat loss.
10. Our air source heat pump has high efficiency reverse circuit design with auto defrosting function.
11. Its drainage hole can discharge out condensed water fluently.
12. The fans operate in quiet mode offering low noise.
13. The wire controller of our air source heat pump is installed indoor, making it convenient for users.
14. R22/ R417A /R407C Refrigerants for heat pump are all available.
15. Fashionable design with fan discharging in horizontal and vertical style is also offered,

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16. Powder coated or 304# Stainless steel cabinet are applied, it is anti corrosion and durable to use for more than 10 years.

17. The whole units are warranted for a period of one year.

Technical Specification of Low Ambient Temp EVI Air Source Heat Pump

Model		XSD10-A7 /D	XSD20-A7 II /D	KFS10-D/ D	KFS16-D II /D	KFS35-D II /D	KFS45-D II /D
HP		3	5	3	5	10	12
Heating capacity	kW	10.00	19.31	10.26	17.83	37.43	43.42
	BTU/h	34120	65886	35007	60836	127711	148149
COP		4.31	4.80	4.42	4.44	4.41	4.51
Rated Heated water output	L/h	133	262	219	381	800	929
Rated outlet water temp.	°C	55					
Max outlet water temp	°C	60					
Rated power input	kW	2.32	4.02	2.32	4.02	8.48	9.63
Rated current	A	10.55	18.27	10.55	6.11	10.58	22.32
Power supply	V/PH/Hz	220V/1Ph /50Hz	380V/3Ph /50Hz	220V/1Ph /50Hz	380V/3Ph/50Hz		
Compressor	Type	Scroll					
	Number	1	1	1	1	2	2
Heat exchanger type		High efficiency tube in shell heat exchanger					
Throttling device		Emerson thermal expansion valve					
Fan	Type	Low noise high efficiency axial type					
	Discharging	Horizontal			Vertical		
	Quantity	1	2	1	1	2	2
	Power	50	90	70	250	250	250

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	input/W						
	Speed/RPM	850	850	850	880	880	880
Ambient temperature	°C	(-25°C~43°C)					
Refrigerant		R22/R417a/R407c					
Noise in 1 meter distance	dB(A)	59	63	59	62	63	63
Water pipe size	Inch	R1 (DN25)	R1 (DN25)	R1	R1	R1-1/2	R1-1/2
Cabinet		Stainless Steel		Stainless Steel/Steel with powder coated			
Low pressure protection system		Yes					
High pressure protection system		Yes					
Water flow switch		No					
Automatically defrost system		Yes					
Dimension	mm	800/400/1220	1110/530/1260	710/710/795	810/810/995	1450/705/1375	1450/705/1375
Package dimension	mm	950/550/1400	1260/680/1430	810/810/980	920/920/1080	1580/840/1450	1580/840/1450
Net weight	kg	110	155	107	129	285	305
Gross weight	kg	134	178	123	152	325	345
Testing condition:		Ambient temp. (DB/WB) = 20°C/15 °C, Inlet/outlet water temp. = 15°C/ 55 °C					

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When the ambient temperature drops to below zero degree in winter, the normal air source heat pump can not run stably due to the system low evaporation temperature, small gas absorption and small system gas flow unstably, even causing trouble like compressor liquid hammered. Thus, our low ambient temp EVI air source heat pump in contrast to the normal air source heat pump can be the perfect solution to meet the heating equipment in the cold area in winter. Adopting the most advanced low- temperature enhances vapors Injection Compressor Technology. This heat pump delivers higher heating capacity at low evaporation temperature thereby better responding to heating requirements than normal air source heat pump. It also results in less supplementary heating to cover the full heating demand on the coldest days. It has been further optimized to enable heat pumps to efficiently produce water temperature up to 65°C during cold winter time.

We are a manufacturer and supplier specialized in low ambient temp EVI air source heat pump in China. We also offer commercial air source heat pump, household heat pump water heater, solar water heater, and many others.

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