

## [Multi-Function Air Source Heat Pump](http://www.heatpumpsupply.com)

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Air Source Heat Pump » Multi-Function Air Source Heat Pump



### **Features of Multi-Function Air Source Heat Pump**

1. The total COP of multi-function air source heat pump is up to 7.0.
2. The heat pump can be used both to heat and cool water for winter and summer application and the hot water is produced all year round.
3. 5 operation modes such as central heating, cooling, cooling plus hot water, central heating plus hot water, or hot water alone are applied for water temperature setting in central heating/cooling and hot water respectively.
4. In winter, our multi-function air source heat pump heats water and provides floor heating (this is not processed at the same time, in order to avoid deficiency in central heating), with temperature setting for both circuits respectively. Hot water function is available alone after central heating is satisfied.

Model		KFS10- N-LR <sub>3</sub>	KFS20- N-LR <sub>3</sub>	KFS35- N-LR <sub>3</sub>	KFS45- N-LR <sub>3</sub>	KFS55- N-LR <sub>3</sub>	KFS70- N-LR <sub>3</sub>	KFS90- N-LR <sub>3</sub>
Power	HP	3	5	10	12	16	20	25
Hot water capacity	kW	11.20	18.00	36.30	43.70	54.40	69.80	87.40
	BTU/h	38214	61416	123856	149104	185613	238158	298209

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Heating capacity	kW	7.90	13.00	27.50	32.50	42.00	52.00	68.00
	BTU/h	26955	44356	93830	110890	143304	177424	232016
Cooling capacity	kW	7.50	12.80	25.30	31.00	40.00	50.00	65.00
	BTU/h	25590	43674	86324	105772	136480	170600	221780
COP		4.67	4.62	4.65	4.62	4.69	4.58	4.64
Rated heated water output	L/h	241	387	780	939	1169	1500	1879
Rated outlet water temp.	°C	55						
Max outlet water temp	°C	60						
Heating input power	kW	2.40	3.90	7.80	9.45	11.60	15.23	18.85
Heating input current	A	10.91	10.26	20.53	24.87	30.53	40.08	49.61
Cooling input power	kW	2.60	4.02	8.26	9.70	12.50	16.00	19.00
Cooling input current	A	11.82	10.58	21.74	25.53	32.89	42.11	50.00
Power supply	V/PH/Hz	220V~/50Hz 380V/3N~/50Hz						
Compressor	Type	Scroll						
	Number	1	1	2	2	2	2	2
Heat exchanger type (water side)		Stainless steel brazing plate heat exchanger						
Heat exchanger type (heat recovery)		High efficiency tube in shell heat exchanger						
Throttling device		Emerson thermal expansion valve						
Fan	Type	Low noise high efficiency axial type						
	Discharging	Vertical						
	Quantity	1	1	2	2	2	2	2
	Power input/W	70	250	250	250	550	750	750
	Speed/RPM	850	880	880	880	910	940	940
Ambient temperature	°C	(-10°C~43°C)						
Refrigerant		R22/R407C						

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Noise in 1 meter distance	dB	59	62	63	63	66	68	68
Water pipe size	inch	R1	R1	R1-1/2	R1-1/2	Rc2	Rc2-1/2	Rc2-1/2
Cabinet		Stainless Steel/Steel with powder coated				Steel with powder coated		
Low pressure protection system		Yes						
High pressure protection system		Yes						
Water flow switch		Yes						
Automatically defrost system		Yes						
Dimension	mm	710/710 /795	810/810 /995	1450/705 /1375	1450/705 /1375	1445/850 /1850	1990/980 /2045	1990/980 /2045
Package dimension	mm	810/810 /980	920/920 /1080	1580/840 /1450	1580/840 /1450	1580/860 /2000	2090/1190 /2145	2090/1190 /2145
Net weight	kg	112	137	311	324	406	584	626
Gross weight	kg	128	160	351	364	466	654	696
Testing condition								
Hot water condition: outdoor temp. (DB/WB) = 20°C/15°C, water temp. (inlet/outlet) = 15°C/55°C.								
Heating condition: outside temp. (DB/WB) = 7°C/6°C, water temp. (inlet/outlet) = 40°C/45°C.								
Cooling condition: outside temp. (DB/WB) = 35°C/24°C, water temp. (inlet/outlet) = 7°C/12°C.								

### **Advantages**

1. Our multi-function air source heat pump uses American Copeland scroll compressors. The capacity of the plate heat exchanger and heating, ranges from 11.2~87.4 kW.
2. Our heat pump adopts Technology of National Patent and its energy-saving ranges from 30 to 50% compared to traditional air-conditioner.
3. In summer it produces free sanitary hot water when cooling. In winter sanitary hot water and central heating should be managed synchronously.
4. This product is suitable for ambient temperature of 15~+45°C.
5. It is reliable with a service life that can reach up to 15 years, featuring low maintenance cost.
6. Our heat pump runs in all weather situations without being affected, no matter in snow or rain weather conditions.
7. Our multi-function air source heat pump is Green with no pollution to the environment.
8. The running cost of the Heat pump supply heat pump can be 75% less than of traditional gas boiler

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heating system, making it an economic product.

9. It is easy for installation. It can be placed on the roof top, balcony, yard, or basement, thus requiring no special room.

10. This heat pump is anti-corrosion featuring durable coating and it is designed with especial anti-corrosion material.

11. It presents full-automatically start and stop based on water temperature setting.

12. The whole units are warranted for one year period.

13. The heat pump adopts intelligent control system by digital LCD controller.

14. It has 24 hours smooth running, making it operating daily and nightly or in sunny and rainy day situation.

### **Technical Specification of Multi-Function Air Source Heat Pump**

Multi-functional [Air Source Heat Pump](#) (heating/cooling+DHW)

Heat pump supply multi-function air source heat pump offers comprehensive eco-energy solution for houses. It is a suitable solution for area that needs floor heating and hot water for application in winter and it can be also applied for cooling water in summer.

As a multi-function air source heat pump manufacturer and supplier in China, Heat pump supply also offers split air source heat pump, domestic heat pump water heater, solar collector, and solar water heater, among others.

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