

[Direct Heating Commercial Air Source Heat Pump](#)

Air Source Heat Pump » Direct Heating Commercial Air Source Heat Pump



[Main Features and Advantages of Direct Heating Commercial Air Source Heat Pump](#)

1. The heating capacity of our direct heating commercial air source heat pump ranges from 11.2~87.4 kW.
2. The air source heat pump is available with R407C/R410A or R22 refrigerants both environment friendly to offer high COP, up to 4.5.
3. This product uses Copeland scroll compressors and American tube and shell heat exchanger which feature high efficiency.
4. Our direct heating commercial air source heat pump applies Emerson Pump ALCO expansion valve, with accurate and stable throttling function.
5. It presents high efficiency coaxial coil tube and shell heat exchanger with low fouling, and low maintenance cost.
6. This product has durable coating, with fashionable design that adopts bolts and nuts, with no damage to the coating which helps avoiding rust.
7. The accurate casing for the fan shroud, with strictly equal distance between the fan blades and the fan shroud edge, largely reduce the vibration and noise.
8. The highest water outlet temperature of the direct heating commercial air source heat pump is 60°C.
9. This product has special modular system design with big units separated in 2 systems with separate compressors. Each system stays as a module and it can start and work separately.
10. Big units adopting Unique "V" style evaporator design is a big strongpoint for the unit. It increases the condenser space in air flow direction, which results in bigger effective air volume. It had been proved to be better efficiency by our testing. This design is also easier for the defrosting water to drain out.
11. Our direct heating commercial air source heat pump saves running cost as high as 60%~80% compared to oil boiler, gas boiler, boiler, electric water heater etc.

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12. The whole units of this product are warranted for one year.
13. Powder coated cabinet is utilized for attractive appearance and economical purpose.
14. This product is able to connect with existing water system.
15. The air source heat pump is very easy to install with water pipe and its power can be connected to the socket safely.
16. The product uses built-in solenoid valve to prevent passive flowing at hot water side.
17. The inlet water temp is of 15°C and outlet water temp is 55°C, only on one time cycle.

Application

Our direct heating commercial air source heat pump can provide heating and hot water for commercial places where need much hot water and heating function, such as hotel, factory, school, hospital, military, villa, village and more.

Technical Specification of Direct Heating Commercial Air Source Heat Pump

Model		KFS10-N-JR	KFS20-N-JR	KFS35-N-JR	KFS45-N-JR	KFS55-N-JR	KFS70-N-JR	KFS90-N-JR
Power	HP	3	5	10	12	16	20	25
Heating 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
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						
Rated power input	kW	2.40	3.90	7.80	9.45	11.60	15.23	18.85
Rated current	A	10.9	7.41	14.81	17.94	22.03	28.92	32.1
Power supply	V/PH/Hz	220V~/50Hz		380V/3N~/50Hz				
Compressor	Type	Scroll						
	Number	1	1	2	2	2	2	2
Heat exchanger type		High efficiency tube in shell heat exchanger						

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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						
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		No						
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

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Net weight	kg	99	137	276	305	380	552	586
Gross weight	kg	115	160	316	345	440	622	656
Testing condition: Ambient temp. (DB/WB) = 20°C/ 15 °C, Inlet/outlet water temp. = 15°C/55°C								

Heat pump supply is a professional manufacturer of direct heating commercial air source heat pump based in China. Our products include household heat pump water heater, solar collector, solar water heater, and much more.