



Hotel/ School/ Swimming Pool Center/ Club/ Villa, Etc.

INTEGRATED AIR SOURCE  
SWIMMING POOL HEAT PUMP

S02H

standard output  
water temperature

/S02G

high output  
water temperature

Intelligent Integration

Smart temperature control, multi-point temperature measurement, multi-level energy regulation, temperature difference automatic adjustment, intelligent loading and unloading of the compressor according to the environmental changes.

System Integration

Using high quality industrial titanium tube heat exchanger, up to 99.8% purity, strong corrosion resistance, no scaling, no easy clogging; using "big flow rate" system design to increase the pool water circulation, realize fast water temperature constant, reduce the region temperature difference.

Energy Saving Integration

Unique flow progress structural design, makes the fluid reverse flow for heat exchange. High speed swirl of water in the heat exchanger, to take away fouling in the internal heat exchanger, enhance the self-cleaning ability of the heat exchanger, meanwhile enhance the disturbance of the fluid, and improve the heat transfer efficiency.



S02H series (swimming pool constant temperature system)

CN/D-RYF-CS02HCY01-130514

		CKFCRS-12I	CKFCRS-20I	CKFCRS-12II	CKFCRS-20II	CKFCRS-28II	CKFCRS-40II	CKFCRS-55II	CKFCRS-80II	CKFCRS-95II	CKFCRS-120II
		CS02H030A	CS02H050A	CS02H030B	CS02H050B	CS02H070A	CS02H100A	CS02H140A	CS02H200A	CS02H240A	CS02H300A
Rated heating capacity (kW)		12	20	12	20	28	40	55	80	95	120
Rated power (kW)		2.5	4.2	2.5	4.2	5.8	8.0	11.0	16.0	19.0	24.0
Rated current (A)		12.6	21.4	4.7	7.8	11.0	15.0	20.7	30.1	35.7	45.1
Maximum power (kW)		3.4	5.8	3.5	5.8	8.1	11.0	15.2	22.1	26.2	33.1
Maximum current (A)		17.5	29.8	6.5	10.9	15.2	20.8	28.7	41.7	49.5	62.5
Performance coefficient (COP)		4.8	4.8	4.8	4.8	4.8	5.0	5.0	5.0	5.0	5.0
Rated hot water output temperature (℃)		28									
Maximum hot water output temperature (℃)		35									
Power supply		1N 220V/50Hz		3N 380V/50Hz							
Alternative power supply		(1N 208-230V/60Hz); (1N 220-240V/50Hz); (3N 220-240V/50Hz) (3N 208-230V/60Hz); (3N 380-415V/50Hz); (3N 440-460V/60Hz); (3N 380V/60Hz)									
Compressor	Type	Fully closed scroll type									
	Start mode	Direct									
Water side heat exchanger	Type	Titanium tube									
	Water flow (m³/h)	3.4	5.7	3.4	5.7	8.0	11.5	15.8	22.9	27.2	34.4
	Water pressure drop (kPa)	50	50	50	50	50	50	70	70	70	70
	Pipe size (DN)	50	50	50	50	50	50	50	90	90	90
Protections		1. High and low pressure protection, 2. Anti-freeze protection, 3. High temperature protection, 4. Overload protection, 5. Reverse of phase protection, Lack of phase protection, etc.									
Refrigerant	Type	R410A									
	Weight(kg)	2.1	2.8	2.1	2.8	4	2.8×2	3.6×2	3.2×4	3.5×4	2.8×6
Noise [≤DB (A)]		55	63	55	63	63	65	68	70	70	70
Unit dimensions	Length(mm)	700	772	700	772	820	1460	1460	2050	2050	2641
	Width(mm)	700	686	700	686	820	910	910	1100	1100	1000
	Height (mm)	870	938	870	938	1060	1430	1430	1935	1935	1930
Weight (kg)		100	160	100	160	165	305	345	810	820	855

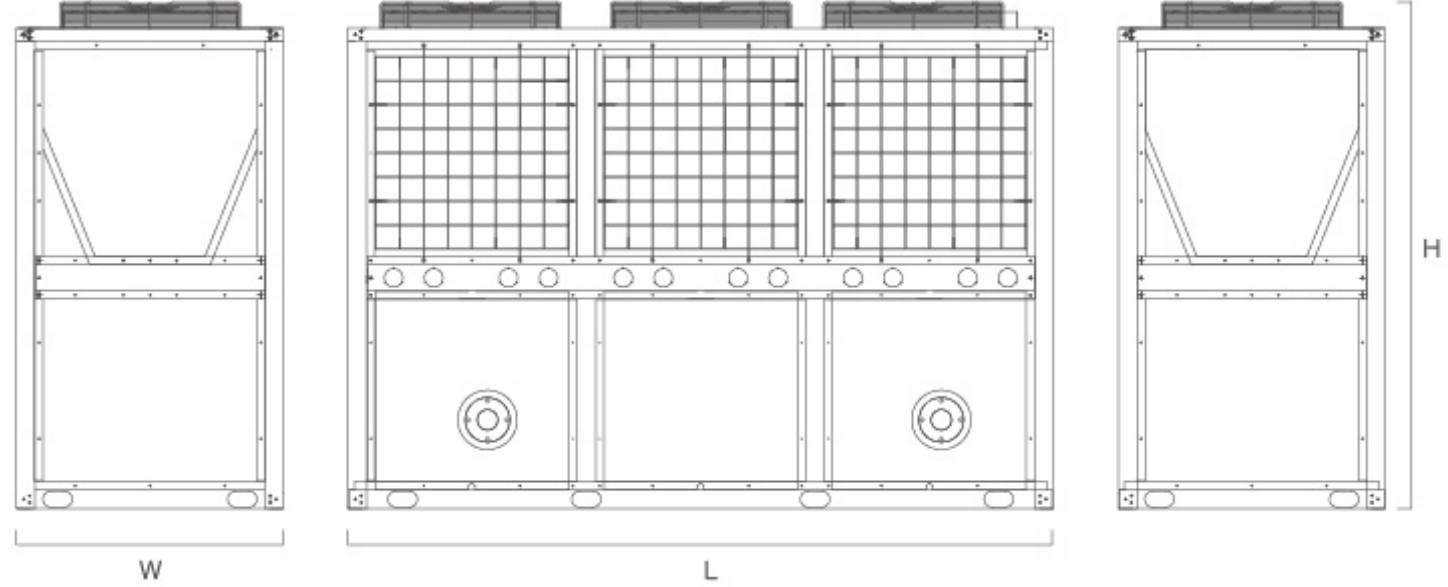
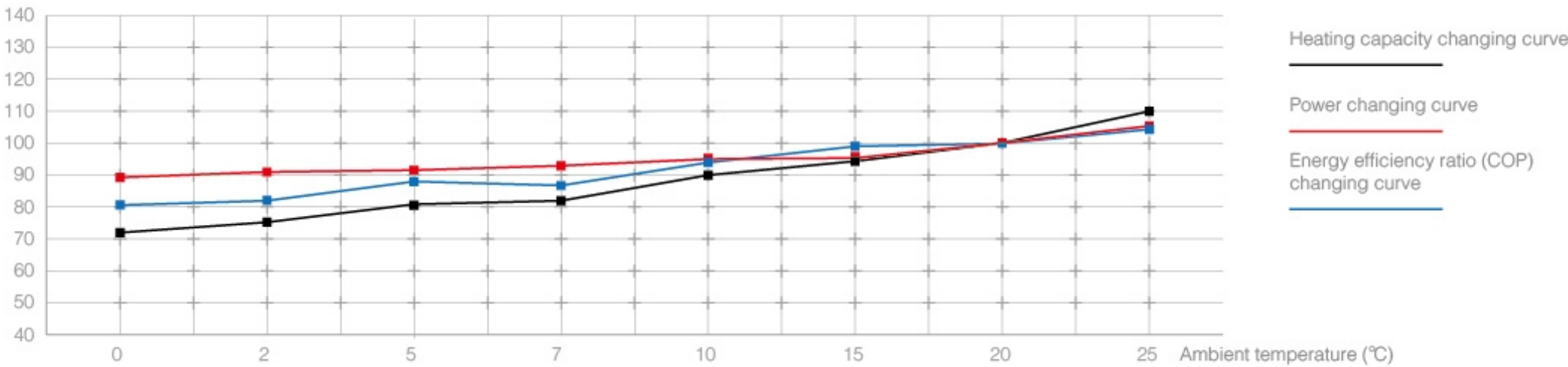
⚠ 1.Hot water standard condition: use side initial water temperature 15℃, end water temperature 28℃; dry bulb temperature 20℃, wet bulb temperature 15℃.  
2.The above parameters are based on Refrigearnt R410A, for parameters based on other refrigerant please contact us.  
3.The above parameters may have some differences from the final product because of products updating, so above information is not the provision of any business contract. Please refer to final product label when buy, or refer to us for any information. Our company keeps the right to interpret.



Heating performance correction coefficient (%)								
Ambient temperature (°C)	0	2	5	7	10	15	20	25
Heating capacity (%)	72	75	81	82	90	95	100	110
Power (%)	89.6	91	92	93.8	95.6	96.8	100	105
Energy efficiency ratio(COP) (%)	80.4	82.4	88.0	87.4	94.1	98.1	100	104.8

Heating performance correction coefficient changing curve

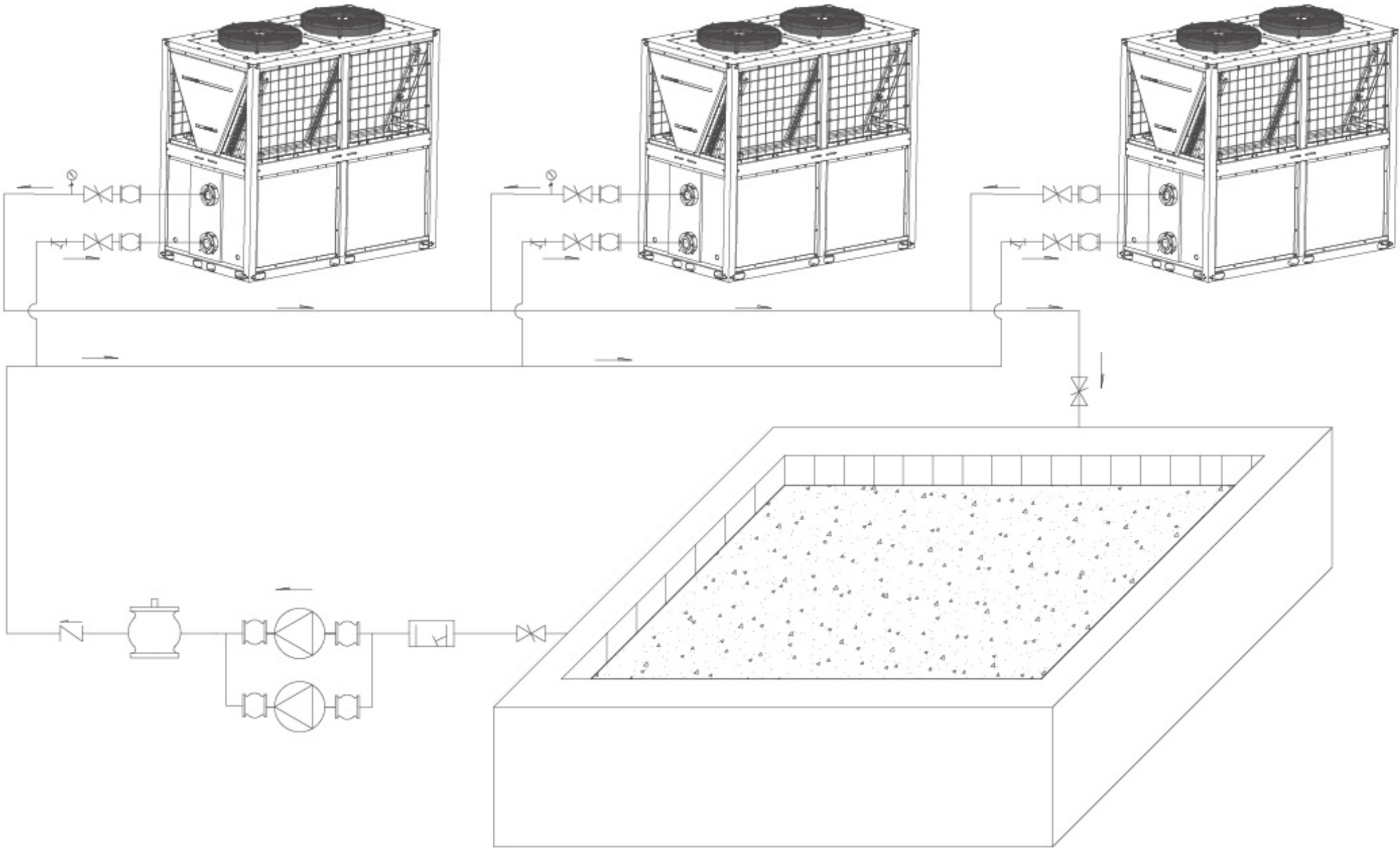
Correction coefficient (%)



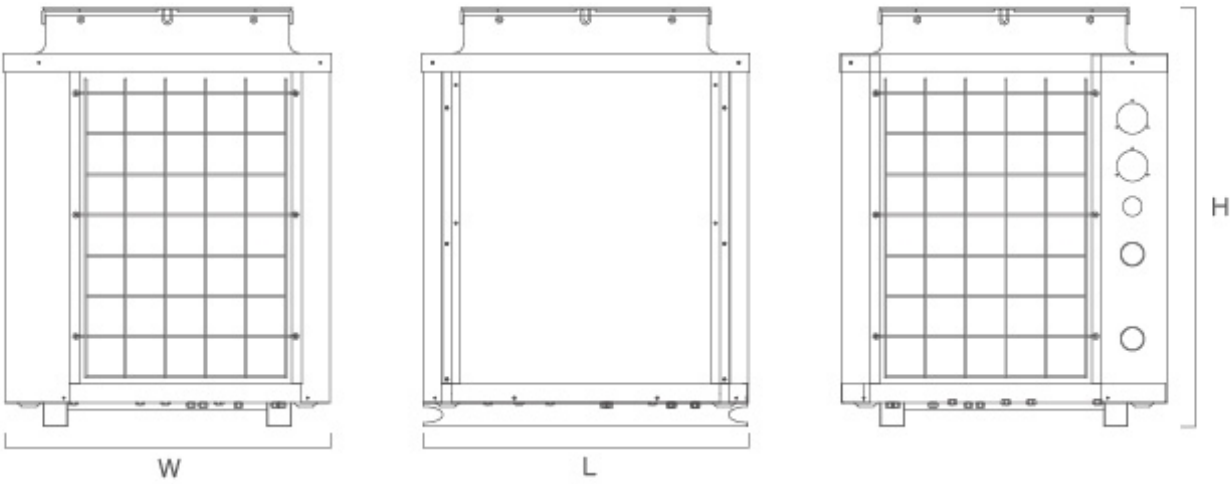
S02H series	
Model	Dimensions (L x W x H)
CKFCRS-120 II	2641×1000×1930

S02G series	
Model	Dimensions (L x W x H)
CKFCRS-100 II /g	2641×1000×1930

Running Chart

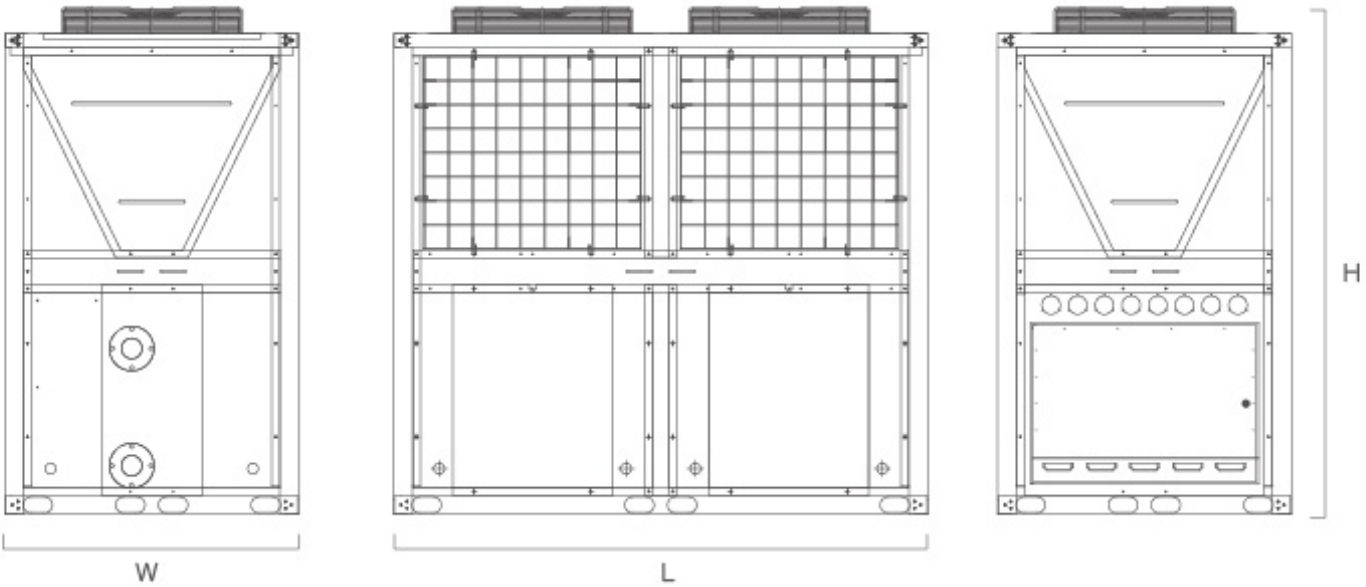


Product Dimensions



S02H series	
Model	Dimensions (L x W x H)
CKFCRS-12 I (II)	700×700×870
CKFCRS-20 I (II)	772×686×938
CKFCRS-28 II	820×820×1060

S02G series	
Model	Dimensions (L x W x H)
CKFCRS-12 I (II) /g	700×700×870
CKFCRS-19 I (II) /g	772×686×938



S02H series	
Model	Dimensions (L x W x H)
CKFCRS-40(55) II	1460×910×1430
CKFCRS-80(95) II	2050×1100×1935

S02G series	
Model	Dimensions (L x W x H)
CKFCRS-35(50) II /g	1460×910×1430
CKFCRS-75 II /g	2050×1100×1935



S02G series (swimming pool constant temperature system — high temperature type) CN/D-RYF-CS02GCY01-130514

		CKFCRS-12I/g	CKFCRS-19I/g	CKFCRS-12II/g	CKFCRS-19II/g	CKFCRS-35II/g	CKFCRS-50II/g	CKFCRS-75II/g	CKFCRS-100II/g
		CS02G030A	CS02G050A	CS02G030B	CS02G050B	CS02G100A	CS02G140A	CS02G200A	CS02G300A
Under heating condition	Rated heating capacity(kW)	12	19	12	19	35	50	75	100
	Rated power(kW)	2.9	4.6	2.9	4.6	9.0	12.5	18.8	25.6
	Rated current(A)	15.0	23.8	5.7	9.0	17.5	24.4	36.0	49.2
Under constant temperature condition	Rated heating capacity(kW)	10	15	10	15	30	40	55	80
	Rated power(kW)	3.2	4.8	3.2	4.8	10.0	13.3	18.3	27.6
	Rated current(A)	16.2	24.8	6.2	9.4	19.5	26.0	35.8	53.8
Maximum power(kW)		4.0	6.0	4.0	6.0	12.5	16.7	22.9	34.5
Maximum current(A)		20.3	31.0	7.7	11.8	24.4	32.5	44.7	67.2
Power supply		1N 220V/50Hz		3N 380V/50Hz					
Alternative power supply		(1N 208-230V/60Hz); (1N 220-240V/50Hz); (3N 220-240V/50Hz) (3N 208-230V/60Hz); (3N 380-415V/50Hz); (3N 440-460V/60Hz); (3N 380V/60Hz)							
Compressor	Type	Fully closed scroll type							
	Start mode	Direct							
Water side heat exchanger	Type	Titanium tube							
	Water flow (m³/h)	3.4	5.7	3.4	5.7	11.5	15.8	22.9	34.4
	Water pressure drop(kPa)	50					70		
	Pipe size(DN)	50	50	50	50	50	50	90	90
Protections		1.High and low pressure protection, 2. Anti-freeze protection, 3. High temperature protection, 4. Overload protection, 5. Reverse of phase protection, Lack of phase protection, etc.							
Refrigerant	Type	R410A							
	Weight(kg)	2.1	2.8	2.1	2.8	2.7×2	3.9×2	3.5×4	2.7×6
Noise [≤DB (A)]		55	63	55	63	65	68	70	70
Unit dimensions	Length(mm)	700	772	700	772	1460	1460	2050	2641
	Width(mm)	700	686	700	686	910	910	1100	1000
	Height(mm)	870	938	870	938	1430	1430	1935	1930
Weight (kg)		100	160	100	160	305	345	810	855

**⚠** 1. Heating standard condition: use side initial water temperature 15℃, end water temperature 45℃; dry bulb temperature 20℃, wet bulb temperature 15℃.  
2. Constant temperature condition: dry bulb temperature 7℃, water input temperature 40℃, water output temperature 45℃.

The above parameters may have some differences from the final product because of products updating, so above information is not the provision of any business contract. Please refer to final product label when buy, or refer to us for any information. Our company keeps the right to interpret.

Heating performance correction coefficient (%)														
Ambient temperature (℃)	-7	-5	-2	0	2	5	7	10	15	20	25	30	35	
Heating capacity (%)	62	65	67	70	72	78	83	89	94	100	110	116	128	
Power (%)	90	92	93	93	94	94	95	95	98	100	105	108	115	
Energy efficiency ratio(COP) (%)	69	71	72	75	77	83	88	94	96	100	105	107	111	

Heating performance correction coefficient changing curve

