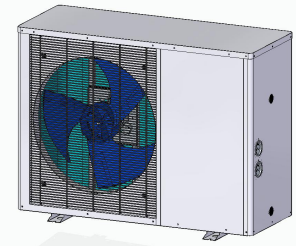


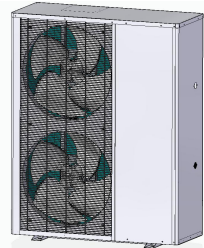
## DC Inverter Air Source Heat Pumps (Monoblock Type)

1. Working source temperature range:  $-25^{\circ}\text{C}$  to  $45^{\circ}\text{C}$
2. Control Object: water tank temperature  
(Setting range: Heating:  $30^{\circ}\text{C} \sim 55^{\circ}\text{C}$ ; Cooling:  $32^{\circ}\text{C} \sim 12^{\circ}\text{C}$ )
3. Control Way: wire controller
4. Water Pump: start/stop according to water tank temp
5. Working Modes: hot water/heating/cooling/hot water+cooling/hot water+heating

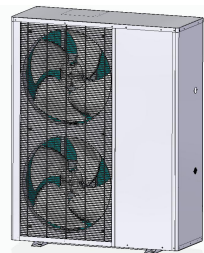
CGK025V3L-B, CGK-025V3L-B  
CGK030V3L-B, CGK-030V3L-B  
CGK040V3L-B, CGK-040V3L-B



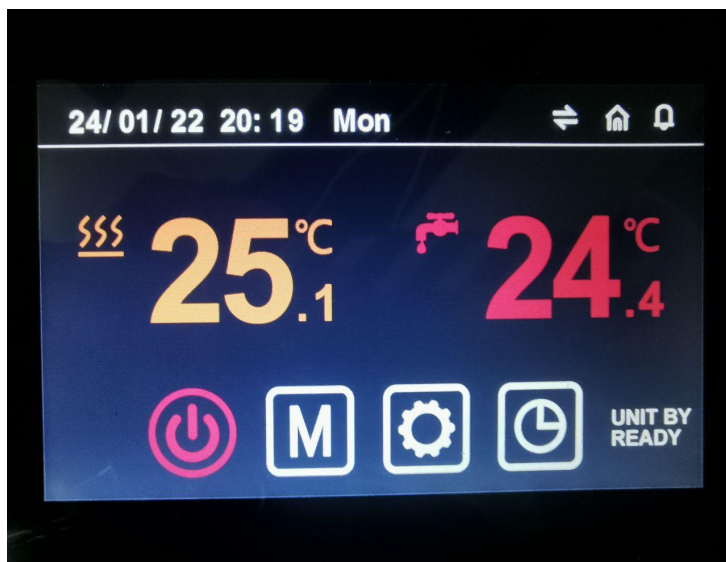
CGK050V3L-B, CGK-050V3L-B



CGK060V3L-B, CGK-060V3L-B












**SPRSUN**



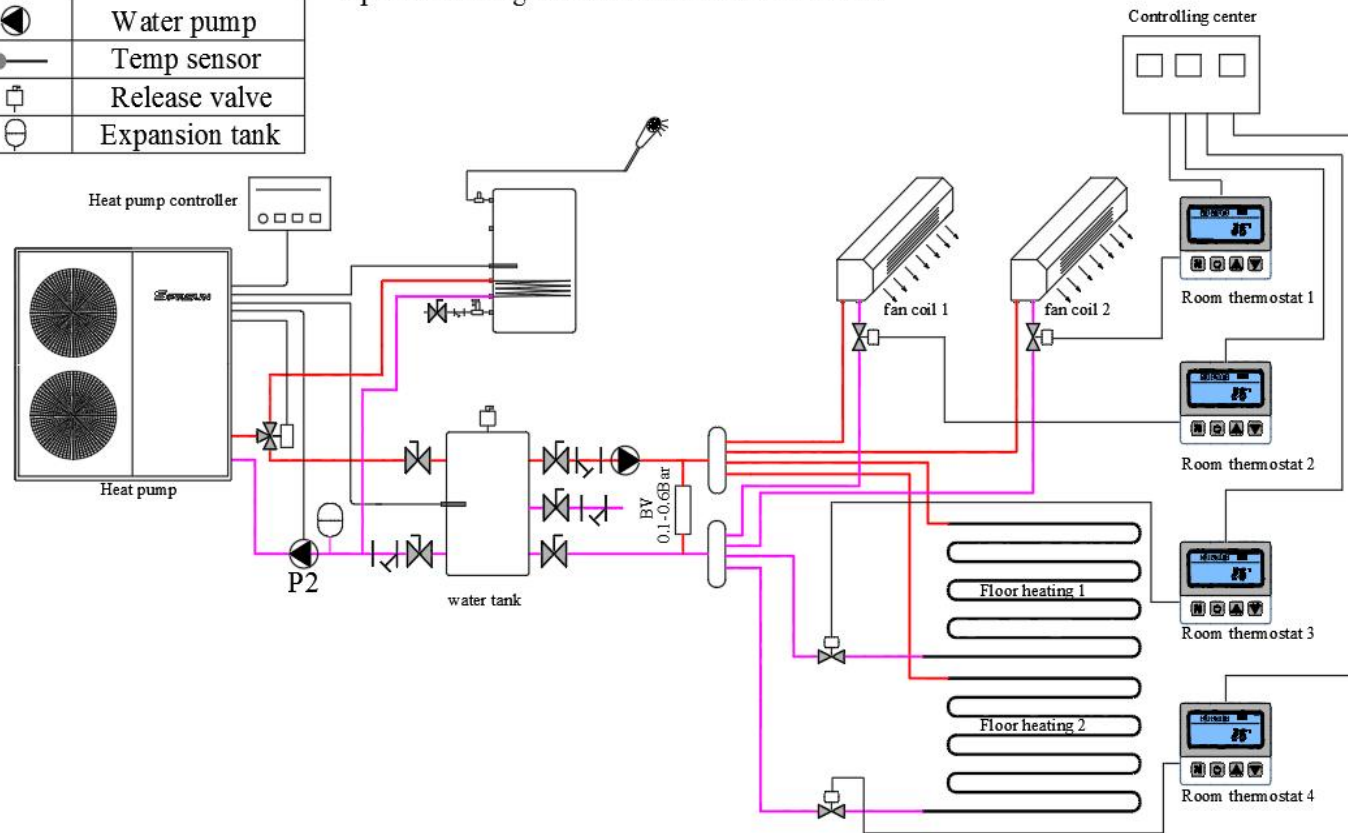
Guangzhou Sprsun New Energy Technology Development Co., Ltd.

## Installation Diagram

Symbol	Name
	3-way valve
	2-way valve
	Ball valve
	Non-return valve
	Filter
	Water pump
	Temp sensor
	Release valve
	Expansion tank


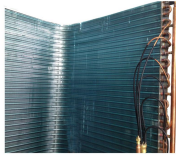








**Notice:**

1. Pls select the right modes according to your demand then install it according to the installation diagram. If only hot water function required, pls select heating+hot water mode , and then put the hot water sensor into the hot water tank.
2. Two-way valve and BV valve are optional for installation. Only If you need to control the temperature by different zone, then pls install both.
3. Fan coil can be controlled by linkage with the secondary circulation pump . Meanwhile, a passive linkage thermostat shall be installed.



SPRSUN DC inverter air source heat pump

## Standard Materials

Name	Description	Picture	Name	Description	Picture	Name	Description	Picture
Condenser	Plate Heat Exchanger		Evaporator	Hydropilic Aluminium foil and internal thread copper pipe heat exchanger		High Pressure Sensor	Manqiwei 0-4.5MPa	
Compressor	Panasonic Rotary Compressor		Expansion Valve	Danfoss Electronic expansion valve		Low Pressure Sensor	Manqiwei 0-3.45MPa	
4-way valve	SANHUA		DC Fan	NIDEC DC Fan		Package	corrugated board case / plywood case	
Controller	Touch screen Controller							

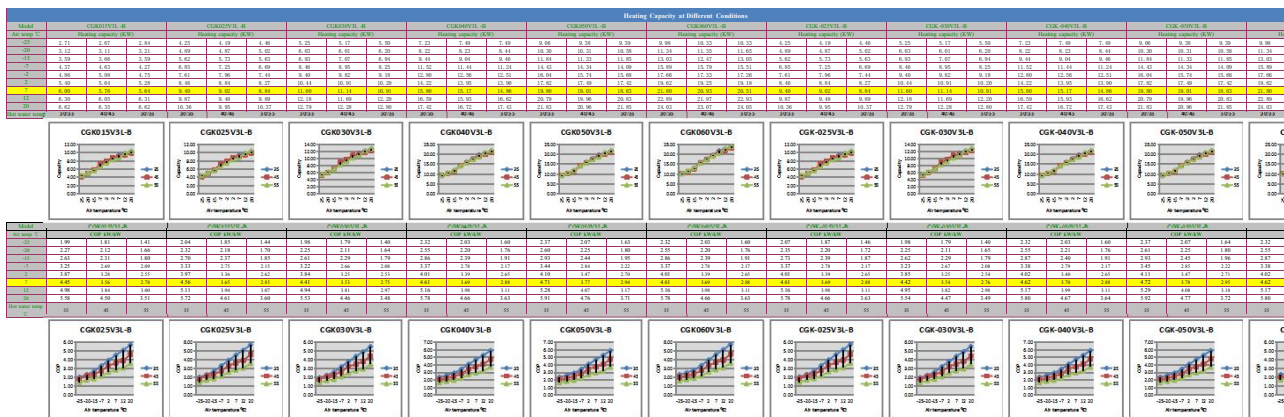
Unit Name		DC Inverter Air Source Heat Pumps (Monoblock Type)											
Model		CGK015V3L-B	CGK025V3L-B	CGK030V3L-B	CGK040V3L-B	CGK050V3L-B	CGK060V3L-B	CGK025V3L-B	CGK030V3L-B	CGK040V3L-B	CGK050V3L-B	CGK060V3L-B	
Power Supply / Refrigerant	V/Hz/P	220-240/50/1 - R32	220-240/50/1 - R32	220-240/50/1 - R32	220-240/50/1 - R32	220-240/50/1 - R32	220-240/50/1 - R32	380-420/50/3 - R32	380-420/50/3 - R32	380-420/50/3 - R32	380-420/50/3 - R32	380-420/50/3 - R32	
Max. Heating Capacity (A7 °C/W35 °C)	kW	8	9.4	11.6	15.8	19.8	21.8	9.4	11.6	15.8	19.8	21.8	
C.O.P. (A7 °C/W35 °C)	W/W	4.62	4.56	4.41	4.61	4.71	4.61	4.56	4.42	4.62	4.72	4.62	
Heating Capacity Min./Max. (A7 °C/W35 °C)	kW	2.78 / 6.00	4.32 / 9.40	5.34 / 11.60	7.27 / 15.80	9.11 / 19.80	10.03 / 21.80	4.32 / 9.40	5.34 / 11.60	7.27 / 15.80	9.11 / 19.80	10.03 / 21.80	
Heating Power Input Min./Max. (A7 °C/W35 °C)	W	478 / 1299	759 / 2061	968 / 2630	1261 / 3427	1547 / 4204	1740 / 4729	759 / 2061	968 / 2624	1259 / 3420	1544 / 4195	1736 / 4719	
C.O.P. Min./Max. (A7 °C/W35 °C)	W/W	4.62 / 5.78	4.56 / 5.70	4.41 / 5.51	4.61 / 5.76	4.71 / 5.89	4.61 / 5.76	4.56 / 5.70	4.42 / 5.53	4.62 / 5.78	4.72 / 5.90	4.62 / 5.78	
Max. Heating Capacity (A7 °C/W45 °C)	kW	5.8	9.0	11.1	15.2	19.0	20.9	9.0	11.1	15.2	19.0	20.9	
C.O.P. (A7 °C/W45 °C)	W/W	3.70	3.65	3.53	3.69	3.77	3.69	3.65	3.54	3.70	3.78	3.70	
Heating Capacity Min./Max. (A7 °C/W45 °C)	kW	2.65 / 5.76	4.15 / 9.02	5.12 / 11.14	6.98 / 15.17	8.74 / 19.01	9.63 / 20.93	4.15 / 9.02	5.12 / 11.14	6.98 / 15.17	8.74 / 19.01	9.63 / 20.93	
Heating Power Input Min./Max. (A7 °C/W45 °C)	W	604 / 1558	958 / 2474	1223 / 3156	1593 / 4113	1954 / 5045	2198 / 5675	958 / 2474	1220 / 3149	1590 / 4104	1950 / 5034	2193 / 5662	
C.O.P. Min./Max. (A7 °C/W45 °C)	W/W	3.70 / 4.39	3.65 / 4.33	3.53 / 4.19	3.69 / 4.38	3.77 / 4.47	3.69 / 4.38	3.65 / 4.33	3.54 / 4.20	3.70 / 4.39	3.78 / 4.48	3.70 / 4.39	
Max. Cooling Capacity (A35 °C/W18 °C)	kW	5.5	8.6	10.6	14.4	18.1	19.9	8.6	10.6	14.4	18.1	19.9	
E.E.R. (A35 °C/W18 °C)	W/W	3.99	3.54	3.42	3.58	3.65	3.58	3.54	3.43	3.99	3.66	3.59	
Cooling Capacity Min./Max. (A35 °C/W18 °C)	kW	2.52 / 5.47	3.94 / 8.57	4.87 / 10.58	6.63 / 14.41	8.31 / 18.06	9.15 / 19.88	3.94 / 8.57	4.87 / 10.58	6.63 / 14.41	8.31 / 18.06	9.15 / 19.88	
Cooling Power Input Min./Max. (A35 °C/W18 °C)	W	585 / 1529	929 / 2423	1185 / 3091	1544 / 4028	1894 / 4941	2131 / 5558	929 / 2423	1183 / 3084	1541 / 4019	1890 / 4930	2128 / 5546	
E.E.R. Min./Max. (A35 °C/W18 °C)	W/W	3.59 / 4.30	3.54 / 4.25	3.42 / 4.11	3.58 / 4.29	3.65 / 4.39	3.58 / 4.29	3.54 / 4.25	3.43 / 4.12	3.59 / 4.30	3.66 / 4.39	3.59 / 4.30	
Max. Cooling Capacity (A35 °C/W7 °C)	kW	4.3	6.0	7.5	10.2	12.7	14.0	6.0	7.5	10.2	12.7	14.0	
E.E.R. (A35 °C/W7 °C)	W/W	2.69	2.48	2.40	2.50	2.56	2.50	2.48	2.40	2.69	2.56	2.51	
Cooling Capacity Min./Max. (A35 °C/W7 °C)	kW	1.98 / 4.30	2.78 / 6.05	3.43 / 7.46	4.67 / 10.16	5.86 / 12.74	6.45 / 14.02	2.78 / 6.05	3.43 / 7.46	4.67 / 10.16	5.86 / 12.74	6.45 / 14.02	
Cooling Power Input Min./Max. (A35 °C/W7 °C)	W	523 / 1599	744 / 2441	950 / 3115	1238 / 4058	1518 / 4978	1708 / 5599	744 / 2441	948 / 3108	1235 / 4048	1515 / 4967	1704 / 5587	
E.E.R. Min./Max. (A35 °C/W7 °C)	W/W	2.69 / 3.79	2.48 / 3.74	2.40 / 3.61	2.50 / 3.78	2.56 / 3.86	2.50 / 3.78	2.48 / 3.74	2.40 / 3.62	2.51 / 3.79	2.56 / 3.87	2.51 / 3.79	
Max Power Input	kW	1.90	3.09	3.95	5.14	6.31	7.09	3.09	3.94	5.13	6.29	7.08	
Max Current	A	9.01	14.79	18.88	24.60	30.17	33.94	6.53	8.31	10.83	13.28	14.94	
Compressor	Type - Quantity/System	Twin Rotary - 1		Twin Rotary - 1		Twin Rotary - 1		Twin Rotary - 1		Twin Rotary - 1		Twin Rotary - 1	
	Quantity	1		1		1		1		1		1	
Fan	Airflow	1500		2500		3500		5000		5500		5500	
	Rated power	W		80		100		200		80		200	
Water Side Heat Exchanger	Type	Plate Heat Exchanger		Plate Heat Exchanger		Plate Heat Exchanger		Plate Heat Exchanger		Plate Heat Exchanger		Plate Heat Exchanger	
	Water Pressure Drop	kPa		18		20		23		18		23	
Piping Connection	Inch	G3/4"		G1"		G1"		G1"		G1"		G1"	
	U.S.	0.18 / 0.28 / 0.48		0.28 / 0.45 / 0.75		0.35 / 0.55 / 0.92		0.47 / 0.75 / 1.26		0.59 / 0.95 / 1.58		0.65 / 1.04 / 1.74	
Noise Level	dB(A)	49		56		60		61		62		62	
	mm	990*375*655		1110*475*810		1110*475*810		1110*475*960		1110*475*1355		1110*475*1355	
Packing Dimension (LxDxH)	mm	1070*405*900		1200*540*970		1200*540*970		1200*540*1120		1200*540*1510		1200*540*1510	
	kg	52		78		88		124		78		124	
Gross Weight	kg	106		106		116		161		106		161	

Note: (1) Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C/WB 6°C.

(2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°C/WB 6°C.

(3) Cooling condition: water inlet/outlet temperature: 23°C/18°C, Ambient temperature: DB35°C/WB24°C.

(4) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB35°C/WB24°C.



GK-050V3L-B	
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15



GK-050V3L-B	
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15
15-15	15-15

