

ERP A+++ R32 Cold Climate Full Inverter Heat Pumps

- Max. Heating Capacity : **9.5KW-22KW**
- Max. Cooling Capacity : **6.8KW-15.8KW**
- Multi-functions: **Hot Water, House Heating and Cooling**
- Ambient Temperature Range: **-30°C-45°C**

R32

-30°C

WiFi
WiFi Control
(Optional)



CGK025V3L-B CGK030V3L-B CGK040V3L-B CGK050V3L-B CGK060V3L-B
CGK-025V3L-B CGK-030V3L-B CGK-040V3L-B CGK-050V3L-B CGK-060V3L-B

Features



5-inch Colorful Touch Screen

The 5-inch colorful touch screen allows you to control the temperature and set the system modes easily. With modern and clear interface, it can quickly check error codes, making sure that you are able to change or program your room temperature at anytime.



One Click Remote Software Upgrade

If there's a necessary software update, the system will keep you informed so that you can upgrade the controller software with one click anytime, anywhere as long as it connects to the internet. The update can only take several minutes depending on the speed of the internet connection.



ERP A+++ Performance

As highly energy-efficient as the CAREL controller series, the new R32 Full Inverter Heat Pumps also can achieve ERP A+++ energy level. They have a maximum heating capacity from 9.5KW to 22KW, with a maximum COP of 5.89.



R32 Refrigerant

The R32 refrigerant is more environmentally friendly compared to other traditional refrigerants. Its ability to enable an inverter heat pump to recharge and recycle more effectively than some other refrigerants means that the unit can run at much higher efficiencies.



Intelligent Defrosting

SPRSUN independently developed its own PID intelligent defrosting control mode. When the defrosting conditions are met, the defrosting mode will be automatically entered to prevent the unit from defrosting confusion and energy consumption, which will improve the reliability and economy of the whole unit.

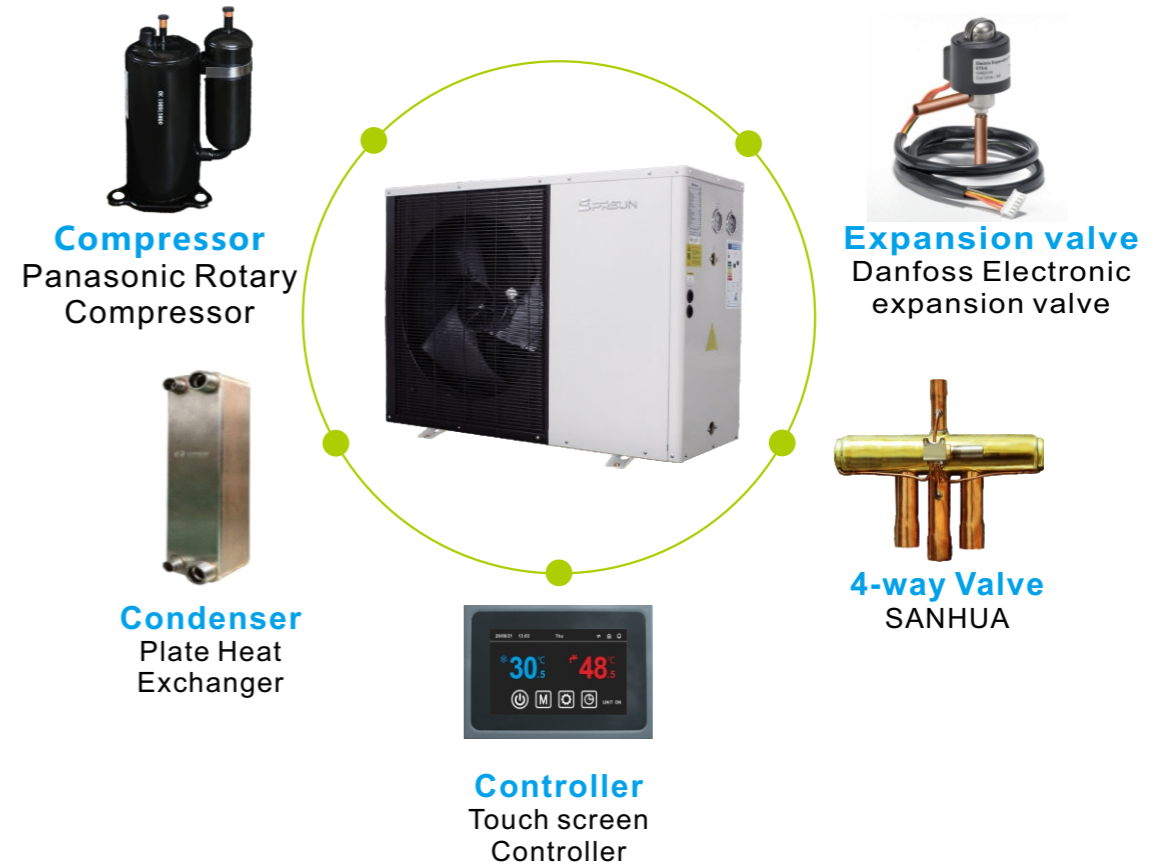
DC Inverter Air Source Heat Pumps

Specifications

Model		CGK025V3L-B	CGK030V3L-B	CGK040V3L-B	CGK050V3L-B	CGK060V3L-B	CGK-025V3L-B	CGK-030V3L-B	CGK-040V3L-B	CGK-050V3L-B	CGK-060V3L-B	
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R32					380-420/50/3 - R32					
Max. Heating Capacity (A7°C/W35°C)	KW	9.5	11.6	15	19.8	22	9.5	12	15	20	22	
C.O.P.(A7°C/W35°C)	WW	4.62	4.41	4.61	4.71	4.61	4.63	4.42	4.62	4.72	4.62	
Heating Capacity Min./Max.(A7°C/W35°C)	KW	4.37/9.5	5.336/11.6	6.9/15	9.108/19.8	10.12/22	4.37/9.5	5.52/12	6.9/15	9.2/20	10.12/22	
Heating Power Input Min./Max.(A7°C/W35°C)	W	757/2056	968/2630	1197/3254	1547/4204	1756/4772	755/2052	999/2715	1195/3247	1559/4237	1752/4762	
C.O.P.Min./Max.(A7°C/W35°C)	WW	4.62/5.78	4.41/5.51	4.61/5.76	4.71/5.89	4.61/5.76	4.63/5.79	4.42/5.53	4.62/5.78	4.72/5.90	4.62/5.78	
Max. Heating Capacity(A7°C/W45°C)	KW	9.1	11.1	14.4	19.0	21.1	9.1	11.5	14.4	19.2	21.1	
C.O.P.(A7°C/W45°C)	WW	3.70	3.53	3.69	3.77	3.69	3.70	3.54	3.70	3.78	3.70	
Heating Capacity Min./Max.(A7°C/W45°C)	KW	4.20/9.12	5.12/11.14	6.62/14.40	8.74/19.01	9.72/21.12	4.20/9.12	5.30/11.52	6.62/14.40	8.83/19.20	9.72/21.12	
Heating power input Min./Max.(A7°C/W45°C)	W	956/2468	1223/3156	1513/3905	1954/5045	2218/5727	954/2462	1262/3258	1509/3896	1970/5085	2214/5714	
C.O.P.Min./Max.(A7°C/W45°C)	WW	3.70/4.39	3.53/4.19	3.69/4.38	3.77/4.47	3.69/4.38	3.70/4.40	3.54/4.20	3.70/4.39	3.78/4.48	3.70/4.39	
Max. Cooling Capacity(A35°C/W18°C)	KW	8.7	10.6	13.7	18.1	20.1	8.7	10.9	13.7	18.2	20.1	
E.E.R.(A35°C/W18°C)	WW	3.59	3.42	3.58	3.65	3.58	3.59	3.43	3.59	3.66	3.59	
Cooling Capacity Min./Max.(A35°C/W18°C)	KW	3.99/8.66	4.87/10.58	6.29/13.68	8.31/18.06	9.23/20.06	3.99/8.66	5.03/10.94	6.29/13.68	8.39/18.24	9.23/20.06	
Cooling Power Input Min./Max.(A35°C/W18°C)	W	927/2824	1185/3613	1466/4469	1894/5774	2150/6555	925/2818	1223/3729	1463/4459	1909/5820	2146/6540	
E.E.R.Min./Max.(A35°C/W18°C)	WW	3.07/4.30	2.93/4.11	3.06/4.29	3.13/4.39	3.06/4.29	3.07/4.31	2.93/4.12	3.07/4.30	3.13/4.39	3.07/4.30	
Max. Cooling Capacity(A35°C/W7°C)	KW	6.8	8.4	10.8	14.3	15.8	6.8	8.6	10.8	14.4	15.8	
E.E.R.(A35°C/W7°C)	WW	2.69	2.57	2.68	2.74	2.68	2.69	2.57	2.69	2.75	2.69	
Cooling Capacity Min./Max.(A35°C/W7°C)	KW	3.15/6.84	3.84/8.35	4.97/10.80	6.56/14.26	7.29/15.84	3.15/6.84	3.97/8.64	4.97/10.80	6.62/14.40	7.29/15.84	
Cooling Power Input Min./Max.(A35°C/W7°C)	W	831/2623	1063/3356	1315/4151	1699/5363	1929/6088	829/2618	1098/3463	1313/4142	1713/5405	1925/6075	
E.E.R.Min./Max.(A35°C/W7°C)	WW	2.61/3.79	2.49/3.61	2.60/3.78	2.66/3.86	2.60/3.78	2.61/3.79	2.49/3.62	2.61/3.79	2.66/3.87	2.61/3.79	
Rated Current	A	9.8	12.6	15.6	20.1	22.8	4.3	5.7	6.9	8.9	10.0	
Max Power Input	W	3.0	3.8	4.7	6.1	6.9	3.0	3.9	4.7	6.1	6.9	
Max Current	A	14.27	18.25	22.57	29.17	33.11	6.28	8.31	9.93	12.97	14.57	
Compressor	Type - Quantity/System	Twin Rotary - 1										
Fan	Quantity	1										
	Airflow	m3/h 2500 3000 3500 5000 5500 2500 3000 3500 5000 5500										
	Rated power	W 80 100 120 200 210 80 100 120 200 210										
Water Side Heat Exchanger	Type	Plate Heat Exchanger										
	Water Pressure Drop	kPa 18 20 20 23 25 18 20 23 23 25										
	Piping Connection	Inch G1' G1' G1' G1' G1' G1' G1' G1' G1' G1' G1'										
Allowable Water Flow	Min./Rated./Max.	L/S 0.28 0.45 0.76 0.35 0.55 0.92 0.45 0.72 1.19 0.59 0.95 1.58 0.66 1.05 1.75 0.28 0.45 0.76 0.36 0.57 0.96 0.45 0.72 1.19 0.60 0.96 1.59 0.66 1.05 1.75										
Noise Level	dB(A)	56 59 60 61 62 56 59 60 61 62										
Net Dimension(L×D×H)	mm	1110*475*810 1110*475*810 1110*475*960 1110*475*1355 1110*475*1355 1110*475*810 1110*475*810 1110*475*960 1110*475*1355 1110*475*1355										
Packing Dimension(L×D×H)	mm	1200*540*970 1200*540*970 1200*540*1120 1200*540*1510 1200*540*1510 1200*540*970 1220*540*970 1200*540*1120 1200*540*1510 1200*540*1510										
Net Weight	Kg	78 88 98 124 124 78 88 98 124 124										
Gross Weight	Kg	106 116 126 161 161 106 116 126 161 161										

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.

Key Components



Installation Diagram

