

SPRSUN

A Professional Heat Pump Manufacturer Since 1999

BUILD YOUR SMART HOME

WHOLE HOUSE HEATING + COOLING + HOT WATER



RoHS CE



UK
CA



CAREL CONTROL SYSTEM PACKAGE

Air to Water Heating, Cooling & DHW

GreenenergyPro Series

R290 DC Inverter Air Source Heat Pumps



ClimaWise Series

R32 DC Inverter Air Source Heat Pumps



Easy Installation Solution

Easy AquaKit



Integral Hydronic Tank



Hot Water and Buffer Tanks

Water Tank

60L 100L 150L 200L 260L 320L 500L 1000L available



Other

FAN COIL



ONE-STOP SOLUTION TO MEET VARIOUS RESIDENTIAL NEEDS

CAREL CONTROL SYSTEM





These two heat pump series deliver smarter, more efficient heating, cooling, and domestic hot water (DHW) solutions for residential use. Their key advantages are exceptional safety, reliability, and integrated smart technology.



Multiple Modes for Comfortable Use



High Energy Efficiency



Stable Running Ambient



CAREL Touch Screen Controller



Reduced Noise



IoT Cloud Platform



KEYMARK Certification



SG Ready

SMART CONTROL SYSTEM

- AI Defrost
- Energy Consumption Tracking (Built-in Energy Consumption Statistics Module)
- Remote Control & Monitoring via APP

HIGH RELIABILITY

- R290 Safety Structure- Safety Partition Chamber
- R290 Explosion-proof Accessories



ADVANCED NOISE REDUCTION TECHNOLOGY

- Innovative Acoustic Isolation Compartment Tech
- Composite Sound-Insulating Materials
- Vibration-Dampening Design



ADVANTAGES OF THE CAREL SYSTEM

Extended Lifespan

Multi-Protection Systems

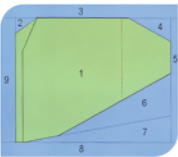


High Immunity

Effective Handling Of Voltage Fluctuations
And Rapid Climate Shifts

Enhanced Efficiency

The Smart System Leverages the
Compressor Operating Envelope to
Achieve Peak Efficiency





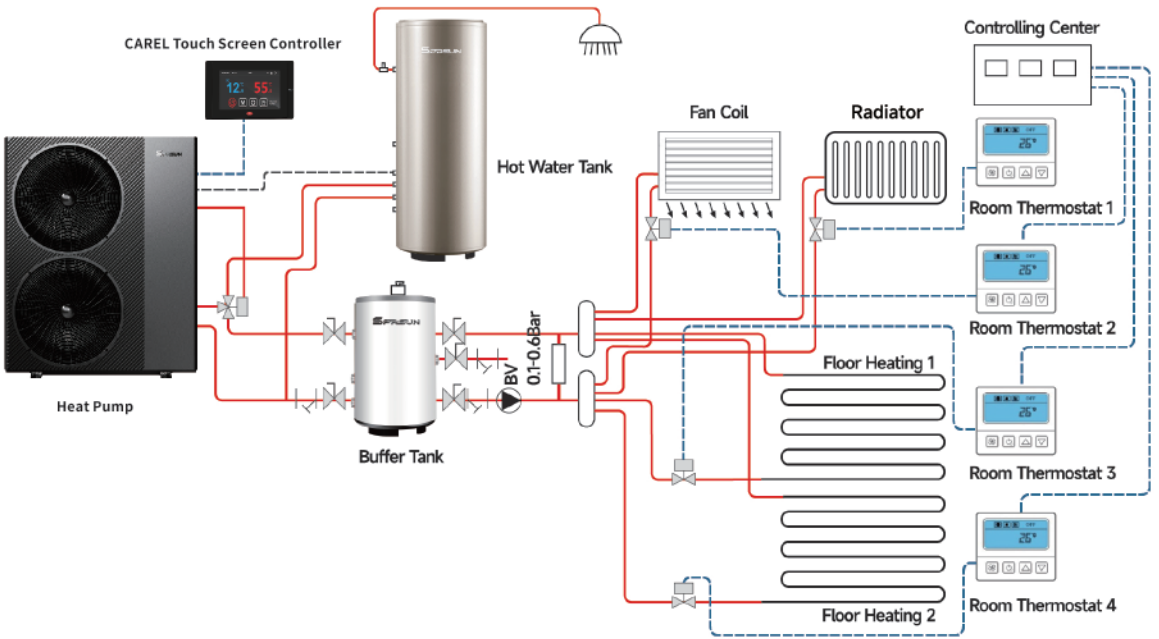
Colour Touch Controller

- Customizable System
- Fast Response & Precision Control
- Multiple Fan Modes
- Multiple Working Modes
- Multi-language Available



*Modes: Heating/Cooling/DHW/Heating+DHW/Cooling+DHW

INSTALLATION DIAGRAM





R32 Refrigerant:

Widely adopted
eco-efficient solution

60°C Max. Outlet Water:

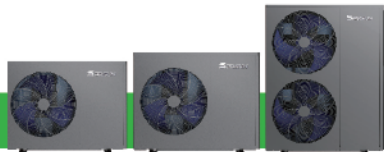
Max.Outlet Water
Temperature

EVI System:

Efficient heating at
ultra-low temp
(Max. COP 5.95)

SPECIFICATION

A+++



Model		CGK015V3L	CGK025V3L	CGK035V3L	CGK040V3L	CGK050V3L	CGK060V3L	CGK-025V3L	CGK-030V3L	CGK-040V3L	CGK-050V3L	CGK-060V3L	
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R32						380-420/50/3 - R32					
Max. Heating Capacity (1)	kW	6	9.5	12	16	20	22	9.5	12	16	20	22	
C.O.P (1)	W/W	4.45	4.58	4.45	4.71	4.75	4.62	4.58	4.45	4.71	4.76	4.65	
Heating Capacity Min./Max.(1)	kW	2.76 / 6	4.37 / 9.5	5.52 / 12	7.36 / 16	9.2 / 20	10.12 / 22	4.37 / 9.5	5.52 / 12	7.36 / 16	9.2 / 20	10.12 / 22	
Heating Power Input Min./Max.(1)	W	496 / 1348	765 / 2074	992 / 2697	1250 / 3397	1549 / 4211	1752 / 4762	765 / 2074	992 / 2697	1250 / 3397	1546 / 4202	1741 / 4731	
C.O.P Min./Max.(1)	W/W	4.45 / 5.56	4.58 / 5.73	4.45 / 5.56	4.71 / 5.89	4.75 / 5.94	4.62 / 5.78	4.58 / 5.73	4.45 / 5.56	4.71 / 5.89	4.76 / 5.95	4.65 / 5.81	
Max. Heating Capacity(2)	kW	5.8	9.1	11.5	15.4	19.2	21.1	9.1	11.5	15.4	19.2	21.1	
C.O.P (2)	W/W	3.60	3.71	3.60	3.82	3.85	3.70	3.71	3.60	3.82	3.81	3.60	
Heating Capacity Min./Max.(2)	kW	2.65 / 5.76	4.20 / 9.12	5.30 / 11.52	7.07 / 15.36	8.85 / 19.20	9.72 / 21.12	4.20 / 9.12	5.30 / 11.52	7.07 / 15.36	8.85 / 19.20	9.72 / 21.12	
Heating power Input Min./Max.(2)	W	627 / 1618	964 / 2489	1254 / 3236	1579 / 4076	1957 / 5053	2214 / 5714	964 / 2489	1254 / 3236	1579 / 4076	1953 / 5042	2199 / 5677	
C.O.P Min./Max.(2)	W/W	3.56 / 4.23	3.66 / 4.35	3.56 / 4.23	3.77 / 4.47	3.80 / 4.51	3.70 / 4.39	3.66 / 4.35	3.56 / 4.23	3.77 / 4.47	3.81 / 4.52	3.72 / 4.42	
Max. Cooling Capacity(3)	kW	5.5	8.7	10.9	14.6	18.2	20.1	8.7	10.9	14.6	18.2	20.1	
E.E.R (3)	W/W	3.50	3.60	3.50	3.70	3.73	3.59	3.60	3.50	3.70	3.69	3.50	
Cooling Capacity Min./Max.(3)	kW	2.52 / 5.47	3.99 / 8.66	5.03 / 10.94	6.71 / 14.59	8.39 / 18.24	9.23 / 20.06	3.99 / 8.66	5.03 / 10.94	6.71 / 14.59	8.39 / 18.24	9.23 / 20.06	
Cooling Power Input Min./Max.(3)	W	608 / 1852	935 / 2849	1215 / 3704	1531 / 4666	1897 / 5783	2146 / 6540	935 / 2849	1215 / 3704	1531 / 4666	1893 / 5771	2132 / 6498	
E.E.R Min./Max.(3)	W/W	2.95 / 4.14	3.04 / 4.26	2.95 / 4.14	3.13 / 4.39	3.15 / 4.42	3.07 / 4.30	3.04 / 4.26	2.95 / 4.14	3.13 / 4.39	3.16 / 4.43	3.09 / 4.33	
Max. Cooling Capacity(4)	kW	4.3	6.2	8.6	10.4	14.4	15.8	6.2	8.6	10.4	14.4	15.8	
E.E.R(4)	W/W	2.52	2.59	2.62	2.66	2.80	2.69	2.59	2.62	2.66	2.77	2.62	
Cooling Capacity Min./Max.(4)	kW	1.99 / 4.32	2.85 / 6.20	3.97 / 8.64	4.80 / 10.44	6.62 / 14.40	7.29 / 15.84	2.85 / 6.20	3.97 / 8.64	4.80 / 10.44	6.62 / 14.40	7.29 / 15.84	
Cooling Power Input Min./Max.(4)	W	545 / 1720	760 / 2399	1090 / 3440	1245 / 3929	1702 / 5371	1925 / 6075	760 / 2399	1090 / 3440	1245 / 3929	1699 / 5360	1913 / 6036	
E.E.R Min./Max.(4)	W/W	2.51 / 3.65	2.58 / 3.75	2.51 / 3.65	2.66 / 3.86	2.68 / 3.89	2.61 / 3.79	2.58 / 3.75	2.51 / 3.65	2.66 / 3.86	2.69 / 3.90	2.62 / 3.81	
Rated Current	A	6.5	9.9	12.9	16.3	20.1	22.8	4.4	5.7	7.2	8.9	10.0	
Max Power Input	kW	2.0	3.0	3.9	4.9	6.1	6.9	3.0	3.9	4.9	6.1	6.9	
Max Current	A	9.4	14.4	18.7	23.6	29.2	33.0	6.3	8.3	10.4	12.9	14.5	
Wire diameter	mm ²	2.5	4.0	4.0	6.0	6.0	6.0	2.5	2.5	2.5	4.0	4.0	
Fuse or Circuit breaker	A	16A	20A	25A	32A	40A	40A	13A	13A	16A	20A	20A	
Compressor	Type - Quantity/System	Two Rotary - 1											
	Quantity	1	1	1	1	2	2	1	1	1	2	2	
Fan	Airflow	m3/h	1500	2500	3000	3500	5000	5500	2500	3000	3500	5000	5500
	Rated power	W	60	80	100	120	200	210	80	100	120	200	210
Water Side Heat Exchanger	Type	Plate Heat Exchanger											
	Water Pressure Drop	kPa	14	18	20	21	23	25	18	20	21	23	25
	Piping Connection	Inch	G3/4"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"
Allowable Water Flow	Min./Rated/Max.	L/S	0.18 0.29 0.48	0.28 0.45 0.76	0.36 0.57 0.96	0.48 0.76 1.27	0.60 0.96 1.59	0.66 1.05 1.75	0.28 0.45 0.76	0.36 0.57 0.96	0.48 0.76 1.27	0.60 0.96 1.59	0.66 1.05 1.75
Sound pressure level(m)	dB(A)	40.8-50.8		41.6-50.1		41.4-51.5		46.9-57.1		44.1-54.1		41.6-55.4	
Sound power level(m)	dB(A)	60.1		61.2		63.2		64.2		66.5		69.5	
Net Dimension(L*W*D)	mm	990*325*655		1110*475*810		1110*475*810		1110*475*960		1110*475*1355		1110*475*1355	
Net Weight	kg	59		96		104		114		140		140	

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;

The information in this document is just for reference. Since the continuous improvement and control in the production process, the information contained in this document may be subject to change. Please refer to the nameplate on the machine for model specifications.