SPRSUN

A Professional Heat Pump Manufacturer Since 1999

THERMAL EFFICIENCY REVOLUTION

Cost-Effective Heat Pump Solutions for Eco-Homes



SPRSUN
CONTROL SYSTEM

RoHS CE MCS CERTIFIED UK CA AIT TÜV SÜD SG Ready ErP

SPRSUN CONTROL SYSTEM PACKAGE

Air to Water Heating, Cooling & DHW

Greenergy Series

R290 DC Inverter Air Source Heat Pumps



Clima Series

R32 DC Inverter Air Source Heat Pumps



Clima-S Series

R32 Split Inverter Air Source Heat Pumps



Hot Water and Buffer Tanks

Water Tank

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



Easy Installation Solution

Easy AquaKit



Integral Hydronic Tank



Other

FAN COIL



ONE-STOP SOLUTION TO MEET VARIOUS RESIDENTIAL NEEDS

SPRSUN CONTROL SYSTEM





Greenergy Series

R290 DC Inverter Air Source Heat Pumps

- Multiple Modes for Comfortable Use
- ERP A+++ High Energy Efficiency
- 75°C Max. Outlet Water Temperature
- -25°C Stable Running Ambient
- Built-in Water Pump
- KEYMARK Certification
- WIFI Control
- Super Quiet
- SG Ready



SUPER QUIET

The Greenergy series air source heat pumps support ultra-quiet operation as low as 40dB(A). The new "carbin" noise reduction technology ensures that your home life is not disturbed by noise.

USER-FRIENDLY DESIGN

The heat pumps support one-click switching of multiple modes. The brushless DC variable frequency control technology allows for more precise temperature control and a more comfortable user experience.

INTELLIGENT CONTROL AND CONNECTIVITY

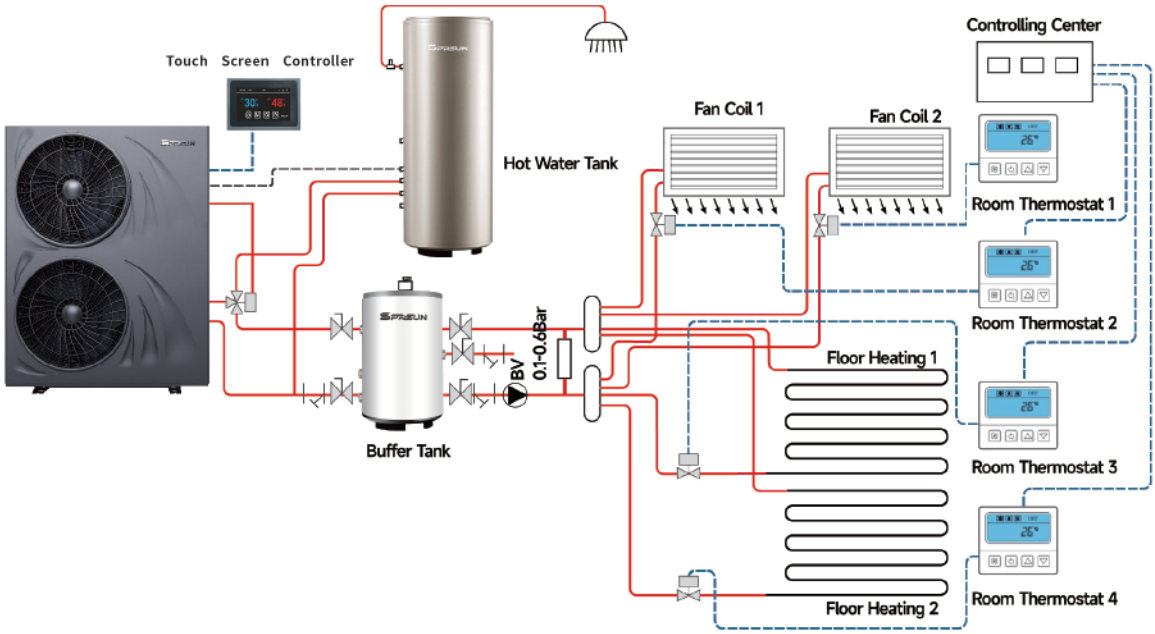
SPRSUN has developed a smart control system that allows for remote access through different platforms, including PCs and mobiles. This system enables cloud data synchronization and on-the-go heat pump management from anywhere, anytime.

ERP A+++ PERFORMANCE

This heat pump uses high-efficiency DC inverter compressors and motors, with a high system efficiency and stable operation, saving energy costs for users.



INSTALLATION SKETCH MAP



SPECIFICATION



Model		CGK020V4P-B	CGK030V4P-B	CGK040V4P-B	CGK050V4P-B	CGK-030V4P-B	CGK-040V4P-B	CGK-050V4P-B
Power Supply		220-240V/50Hz/1Ph				380-420V/50Hz/3Ph		
Heating condition: Ambient Temp：7℃, Outlet water temp：35℃								
Max. Heating Capacity	kW	6.5	9.1	12	15	9.1	12	15
C.O.P	W/W	4.4	4.2	3.9	3.95	4.2	3.9	3.95
Heating Capacity Min./Max.	kW	2.20 /6.50	3.15 /9.10	4.35 /12.00	5.60 /15.00	3.15 /9.10	4.35 /12.00	5.60 /15.00
Heating Power Input Min./Max.	W	441 /1477	626 /2167	885 /3073	1125 /3800	626 /2167	885 /3073	1125 /3800
C.O.P Min./Max.	W/W	4.4/4.99	4.2/5.03	3.90 /4.92	3.95 /4.98	4.2/5.03	3.90 /4.92	3.95 /4.98
Heating condition: Ambient Temp：7℃, Outlet water temp：45℃								
Max. Heating Capacity	kW	6.30	8.60	11.2	14.5	8.60	11.2	14.5
C.O.P	W/W	3.60	3.52	3.28	3.23	3.52	3.28	3.23
Heating Capacity Min./Max.	kW	2.01 /6.30	2.90 /8.60	4.00 /11.20	5.40 /14.50	2.90 /8.60	4.00 /11.20	5.40 /14.50
Heating power input Min./Max.	W	522 /1750	757 /2443	1071 /3415	1427 /4489	757 /2443	1071 /3415	1427 /4489
C.O.P Min./Max.	W/W	3.60 /3.85	3.52 /3.83	3.28 /3.74	3.23 /3.78	3.52 /3.83	3.28 /3.74	3.23 /3.78
Cooling condition: Ambient Temp：35℃, Outlet water temp：18℃								
Max. Cooling Capacity	kW	5.70	7.04	10.0	13.6	7.04	10.0	13.6
E.E.R	W/W	3.48	3.43	3.40	3.28	3.43	3.40	3.28
Cooling Capacity Min./Max.	kW	1.82 /5.70	2.64 /7.04	3.81 /10.00	5.20 /13.60	2.64 /7.04	3.81 /10.00	5.20 /13.60
Cooling Power Input Min./Max.	W	463 /1638	677 /2052	1003 /2941	1402 /4146	677 /2052	1003 /2941	1402 /4146
E.E.R Min./Max.	W/W	3.48 /3.93	3.43 /3.90	3.40 /3.80	3.28 /3.71	3.43 /3.90	3.40 /3.80	3.28 /3.71
Cooling condition: Ambient Temp：35℃, Outlet water temp：7℃								
Max. Cooling Capacity	kW	4.45	5.63	7.2	10.2	5.63	7.2	10.2
E.E.R	W/W	2.87	2.66	2.62	2.60	2.66	2.62	2.60
Cooling Capacity Min./Max.	kW	1.53 /4.45	2.10 /5.63	3.58 /7.20	4.69 /10.20	2.10 /5.63	3.58 /7.20	4.69 /10.20
Cooling Power Input Min./Max.	W	443 /1551	612 /2117	1213 /2748	1520 /3880	612 /2117	1213 /2748	1520 /3880
E.E.R Min./Max.	W/W	2.87 /3.45	2.66 /3.43	2.62 /2.95	2.63 /3.09	2.66 /3.43	2.62 /2.95	2.63 /3.09
Max Power Input	kW	3	4	5	6.3	4	5	6.3
Max Current	A	14.35	19.14	23.92	30.14	8.44	10.55	13.29
Max Water Pump Head	m	9	9	9	12	9	9	12
Noise Level (Sound Pressure)	dB(A)	39	41	44	43	40	43	46
Noise Level (Power Power)	dB(A)	53	55	58	58	54	57	60
Refrigerant	/	R290						
ErP Level(35° C)	/	A+++						
ErP Level(55° C)	/	A++						
Cabinet Type		Weather-resistant pp+Galanizedsheet metal						
Net Weight	kg	90	106	120	135	106	120	135
Carton gross Weight	kg	102	119	133	166	119	133	166
Net Dimension(L*D*H)	mm	1053*475*755	1110*475*810	1110*475*960	1110*475*1355	1110*475*810	1110*475*960	1110*475*1355
Carton packing Dimension(L*D*H)	mm	1115*505*910	1165*505*960	1165*505*1100	1165*505*1520	1165*505*960	1165*505*1100	1165*505*1520

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Clima Series

R32 DC Inverter Air Source Heat Pumps

- Multiple Modes for Comfortable Use
- ERP A+++ Performance
- Stable Running Ambient
- 5-inch Color Touchscreen
- Reduced Noise
- WIFI Control
- KEYMARK Certification
- SG Ready

ULTRA ENERGY-EFFICIENT

Features cutting-edge DC Inverter & EVI Tech for powerful heating even in extreme cold. Max.COP 5.9

INTELLIGENT DEFROST

SPRSUN's PID Smart Defrost Control eliminates erratic cycles and energy waste, boosting defrost reliability and cost-efficiency.



SPECIFICATION

Model		CGK015V3L-B	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	CGK-080V3L-B	CGK-100V3L-B	CGK-101V3L-B
Power Supplyt	V/Hz/Ph	220-240/50/1						380-420/50/3							
Heating condition: water inlet/outlet temperature: 30°C /35°C , Ambient temperature: DB 7°C /WB 6°C ;															
Max. Heating Capacity	kW	6	9.4	11.6	15.8	19.8	21.8	9.4	11.6	15.8	19.8	21.8	29	34.5	35.5
C.O.P	W/W	4.45	4.56	4.41	4.61	4.71	4.61	4.56	4.42	4.62	4.72	4.62	4.3	4.4	4.4
Heating Capacity Min./Max.	kW	2.76/6	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	13.34/29.00	15.87/34.50	16.33/35.50
Heating Power Input Min./Max.	W	496/1348	759/2061	968/2630	1261/3427	1547/4204	1740/4729	759/2061	966/2624	1259/3420	1544/4195	1736/4719	2482/6744	2885/7841	2969/8068
C.O.P Min./Max.	W/W	4.45/5.56	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	4.3/5.38	4.4/5.50	4.4/5.50
Heating condition: water inlet/outlet temperature: 40°C /45°C , Ambient temperature: DB 7°C /WB 6°C ;															
Max. Heating Capacity	kW	5.8	9.0	11.1	15.2	19.0	20.9	9.0	11.1	15.2	19.0	20.9	29.0	33.1	34.1
C.O.P	W/W	3.56	3.65	3.53	3.69	3.77	3.69	3.65	3.54	3.70	3.78	3.70	3.50	3.72	3.72
Heating Capacity Min./Max.	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	13.34/29.00	15.24/33.12	15.68/34.08
Heating power Input Min./Max.	W	595/1618	958/2474	1223/3156	1593/4113	1954/5045	2198/5675	958/2474	1220/3149	1590/4104	1950/5034	2193/5662	3266/8430	3645/9409	3750/9682
C.O.P Min./Max.	W/W	3.56/4.45	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	3.44/4.09	3.52/4.18	3.52/4.18
Cooling condition: water inlet/outlet temperature: 23°C /18°C , Ambient temperature: DB35°C /WB24°C ;															
Max. Cooling Capacity	kW	5.5	8.6	10.6	14.4	18.1	19.9	8.6	10.6	14.4	18.1	19.9	27.6	31.5	32.4
E.E.R	W/W	3.45	3.54	3.42	3.58	3.65	3.58	3.54	3.43	3.59	3.66	3.59	3.40	3.61	3.61
Cooling Capacity Min./Max.	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	12.67/27.55	14.47/31.46	14.89/32.38
Cooling Power Input Min./Max.	W	577/1852	929/2423	1185/3091	1544/4028	1894/4941	2131/5558	929/2423	1183/3084	1541/4019	1890/4930	2126/5546	3166/8115	3533/8720	3636/8972
E.E.R Min./Max.	W/W	2.95/4.36	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	3.40/4.00	3.61/4.10	3.61/4.10
Cooling condition: water inlet/outlet temperature: 12°C /7°C , Ambient temperature: DB35°C /WB24°C ;															
Max. Cooling Capacity	kW	4.3	6.0	7.5	10.2	12.7	14.0	6.0	7.5	10.2	12.7	14.0	19.0	20.8	25.0
E.E.R	W/W	2.59	2.48	2.40	2.50	2.56	2.50	2.48	2.40	2.51	2.56	2.51	2.60	2.60	2.90
Cooling Capacity Min./Max.	kW	1.99/4.32	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	8.74/19.00	9.57/20.80	11.50/25.00
Cooling Power Input Min./Max.	W	506/1720	744/2441	950/3115	1238/4058	1518/4978	1708/5599	744/2441	948/3108	1235/4049	1515/4967	1704/5587	2481/7308	2654/8000	3190/8621
E.E.R Min./Max.	W/W	2.51/3.92	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	2.60/3.52	2.60/3.60	2.90/3.60
Max Power Input	kW	2.02	3.09	3.95	5.14	6.31	7.09	3.09	3.94	5.13	6.29	7.08	10.12	11.76	12.10
Max Current	A	9.68	14.79	18.88	24.60	30.17	33.94	6.53	8.31	10.83	13.28	14.94	21.35	24.82	25.54
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	4.0	6.0	6.0
Sound pressure level(1m)	dB(A)	42.7~50.8	43.9~51	46~53.2	46.2~56.7	44.6~57.5	48.3~58.2	40.4~50.2	44.2~52.6	41.4~55.9	43.3~55	48.8~59	51.2~60.6	53.2~63.6	48~58
Sound power level(1m)	dB(A)	59.5	62.6	63.5	64.5	68.8	70.8	62.1	64.7	64.5	68.3	73.1	72.5	75	70
Refrigerant/Weight	/	R32/1.0kg	R32/1.5kg	R32/1.7kg	R32/2.0kg	R32/2.8kg	R32/2.8kg	R32/1.5kg	R32/1.7kg	R32/2.0kg	R32/2.8kg	R32/2.8kg	R32/3.5kg	R32/5.0kg	R32/5.0kg
ErP Level(35° C)	/							A+++							
Cabinet Type	/	Galvanized steel painting													
Net Weight	kg	59	78	88	105	124	124	78	88	105	124	124	150	260	260
Gross Weight	kg	70	101	105	120	150	150	101	105	120	150	150	183	/	/
Net Dimension(L*D*H)	mm	990*375*655	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	1110*475*1455	950*900*1950	1249*509*1558
Packing Dimension(L*D*H)	mm	1100*460*725	1165*490*960	1165*490*960	1165*490*1100	1165*490*1520	1165*490*1520	1165*490*960	1165*490*960	1165*490*1100	1165*490*1520	1165*490*1520	1165*490*1590	/	/

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Clima-S Series

R32 Split Inverter Air Source Heat Pumps

- Multiple Modes for Comfortable Use
- ERP A+++ Performance
- Stable Running Ambient (-30℃)
- Split Unit Design
- Reduced Noise
- WIFI Control
- Intelligent Defrosting
- SG Ready

SILENT CABIN TECHNOLOGY

The Clima and Clima-S series integrates a comprehensive noise reduction system and utilizes innovative soundproof cabin technology to ensure quieter operation.

SPLIT UNIT DESIGN

The split design of indoor and outdoor units effectively prevents the heat pump from freezing, especially in icy areas.



SPECIFICATION

Model			CGK030V3LSP-B	CGK040V3LSP-B	CGK-060V3LSP-B
Power Supply / Refrigerant		V/Hz/Ph	220-240/50/1 - R32		380-420/50/3 - R32
Heating condition: water inlet/outlet temperature: 30℃/35℃, Ambient temperature: DB 7℃/WB 6℃;					
Max. Heating Capacity		kW	11.5	15.5	22
C.O.P		W/W	4.4	4.58	4.35
Heating Capacity Min./Max.		kW	5.29/11.5	7.13/15.5	10.12/22
Heating Power Input Min./Max.		W	1064 /2614	1378 /3384	2059 /5057
C.O.P Min./Max.		W/W	4.4/4.97	4.58/5.18	4.35/4.92
Heating condition: water inlet/outlet temperature: 40℃/45℃, Ambient temperature: DB 7℃/WB 6℃;					
Max. Heating Capacity		kW	11.0	14.9	21.6
C.O.P		W/W	3.52	3.66	3.61
Heating Capacity Min./Max.		kW	5.08 /11.04	6.84 /14.88	9.96 /21.65
Heating power input Min./Max.		W	1344 /3136	1740 /4061	2666 /6221
C.O.P Min./Max.		W/W	3.52 /3.78	3.66 /3.93	3.48 /3.74
Cooling condition: water inlet/outlet temperature: 23℃/18℃, Ambient temperature: DB35℃/WB24℃;					
Max. Cooling Capacity		kW	10.5	14.1	20.6
E.E.R		W/W	3.41	3.55	3.50
Cooling Capacity Min./Max.		kW	4.82 /10.49	6.50 /14.14	9.46 /20.57
Cooling Power Input Min./Max.		W	1303 /3590	1687 /4648	2584 /7120
E.E.R Min./Max.		W/W	2.92 /3.70	3.04 /3.85	2.89 /3.66
Cooling condition: water inlet/outlet temperature: 12℃/7℃, Ambient temperature: DB35℃/WB24℃;					
Max. Cooling Capacity		kW	8.3	10.9	13.0
E.E.R		W/W	2.56	2.67	2.52
Cooling Capacity Min./Max.		kW	3.81 /8.28	5.00 /10.86	5.98 /13.00
Cooling Power Input Min./Max.		W	1169 /3334	1473 /4202	1856 /5295
E.E.R Min./Max.		W/W	2.48 /3.26	2.58 /3.39	2.46 /3.22
Max Power Input (Heatpump+Electric heating)		kW	(3.8+3) kW	(4.9+3) kW	(7.3+3) kW
Max Current (Heatpump+Electric heating)		A	(18.13+13.6) A	(23.48+13.6) A	(15.48+7.8) A
Wire diameter		/	6mm2	10mm2	4mm2
Fuse or circuitbreakerer		/	40A	50A	32A
Compressor	Type - Quantity/System		Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1
	Quantity		1	1	2
Fan	Airflow	m3/h	3000	3500	5500
	Rated power	W	100	120	210
Sound power level (at 1m)		dB(A)	59	60	62
	Type			Plate Heat Exchanger	
Water Side Heat Exchanger	Water Pressure Drop	kPa	20	21	25
	Piping Connection	Inch		G1"	
Allowable Water Flow	Min./Rated./Max.	L/S	0.34 /0.55/ 0.92	0.46 /0.74/ 1.23	0.66 /1.05/1.75
Specifications and Lengths of Connecting Tubes/Pipes	Indoor		3/8"1/2-5m	3/8"5/8-5m	3/8"5/8-5m
Expansion Tank		L		5	
Electric Heater		kW		3	
Electric Heater Current		A	14.4	14.4	6.3
Inverter Pump Head		m	9	12	12
Outdoor Unit Weight		kg	74	100	112
Outdoor Gross Weight		kg	97	123	142
Indoor Unit Weight		kg	38	40	42
Indoor Gross Weight		kg	52	54	56
Outdoor Unit Size (L×D×H)		mm	1110*475*810	1110*475*960	1110*475*1355
Outdoor Packing Size (L×D×H)		mm	1235*540*970	1235*540*1100	1235*540*1510
Indoor Unit Size (L×D×H)		mm	550*325*650	550*325*650	550*325*650
Indoor Packing Size (L×D×H)		mm	650*450*840	650*450*840	650*450*840

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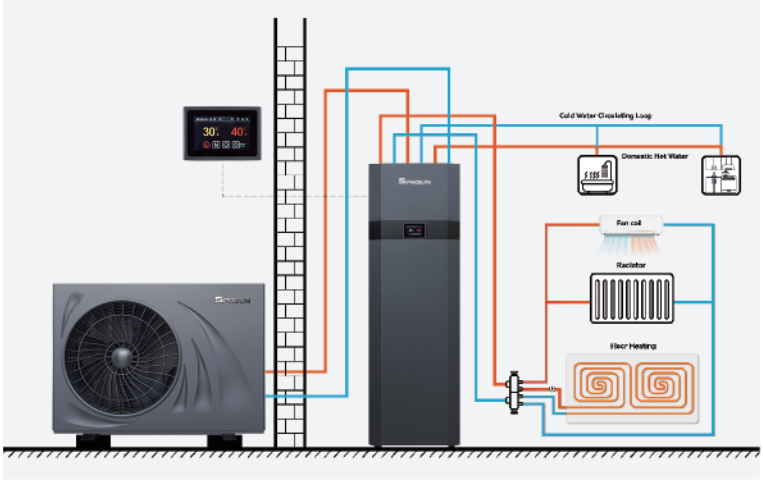
Integral Hydronic Tank

Easy Installation & Cost Saving

SPRSUN Integral Hydronic Tank for indoor heating and hot water integrates essential accessories, simplifying the installation of your heat pump and resulting in time and cost savings.



- Efficient Heating
- Dual Temperature Zone Control
- Increase The Stability of The Unit
- Zero Cold Water Control
- Dual Safety Protection
- Adaptable with Solar Water Heater

SPECIFICATION

		Standard Version	
	Model	CGH06HR150-B	CGH-06HR150-B
Main Configuration	Controller Brand	SPRSUN	SPRSUN
	Package	Splint/carton	Splint/carton
	Electric Heater	3kW/220-240V~	3kW/380V~
	Sheet Metal	Galvanized plate sand gray + matte black spray	
	3-Way Valve	DN25	
	Expansion Tank (L)	5	
	AC Contactor (A)	32A (Explosion proof relay)	
	Heat Exchange Coil (SUS304 corrugated pipe)	DN32*15m	
	others	Built-in drain valve and exhaust valve	
Parameters	Buffer water tank	60L	
	Hot water tank	150L/200L	
	Exhaust Pipe Size	DN15 (Female thread)	
	Power Supply	220-240 ~	380-420 2N~
	Power	Hot water electric heater 3KW + heating electric heater 3KW	
	Current (A)	13.6A+13.6A	7.8A+7.8A
	Max. water temp.	75℃	
	Net Dimension	585*630*1865mm	585*630*1865mm
	Splint Packaging Dimension	735*690*2070mm	735*690*2070mm
	Suitable models	CGK030V4P-B、CGK040V4P-B、CGK050V4P-B、CGK060V4P-B、CGK0-30V4P-B、CGK-040V4P-B、CGK-050V4P-B、CGK-060V4P-B"	CGK-030V4P-B、CGK-040V4P-B、CGK-050V4P-B、CGK-060V4P-B、
	Note: If the 380V model uses the CGH06HR150-B Integral Hydronic Tank, you need to pay attention to whether the power supply can withstand the current of the Integral Hydronic Tank. Connecting cables, circuit breakers, etc. require additional configuration by the user.		

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