



GreenergyPro Series

R290 DC Inverter Air Source Heat Pumps
with CAREL Touch Screen Controller



Multiple Modes for
Comfortable Use



High Energy
Efficiency



Max. Outlet Water
Temperature



Stable Running
Ambient



Built-in
Water Pump



Integrated Power
Tracking



CAREL Touch
Screen Controller



SG
Ready



One-Stop Solution To Meet Various Residential Needs

As a green heating solution for the future, SPRSUN heat pumps can provide comfortable heating in winter, cooling in summer, gentle airflow, and a more comfortable overall sensation, while also supporting a 24-hour hot water supply.



Whole House Heating



Central Hot Water



Central Cooling



Hot Water + House Heating



Hot Water + House Cooling





R290 Refrigerant

SPRSUN has developed brand new products going with R290 refrigerant which is a highly pure propane. It has a low environmental impact and nominal global warming potential (GWP3), meaning it possesses no qualities that can destroy the ozone layer.

R290 also is the preferred hydrocarbon alternative of the Environmental Protection Agency (EPA).



Smart Touch Screen



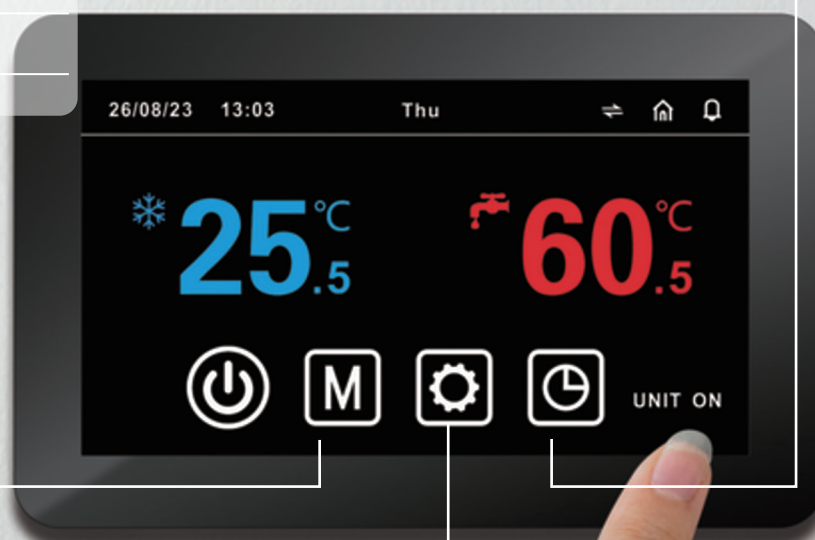
The colorful smart touch screen not only looks sleek and stylish, but also responds quickly, and supports multiple modes for easy one-touch setup, making it effortless for users to control the system.

Multiple Operating Modes:

- Turbo
- Eco
- Sleep
- HI-COP

Timing Control:

- Timezone
- Setpoint
- Pre-setting
- Temperature



Multiple Extended Functions:

- Language Setting
- Temperature Curve
- User Parameters
- Engineering Parameters
- Unit Information



SPRSUN Smart Control System

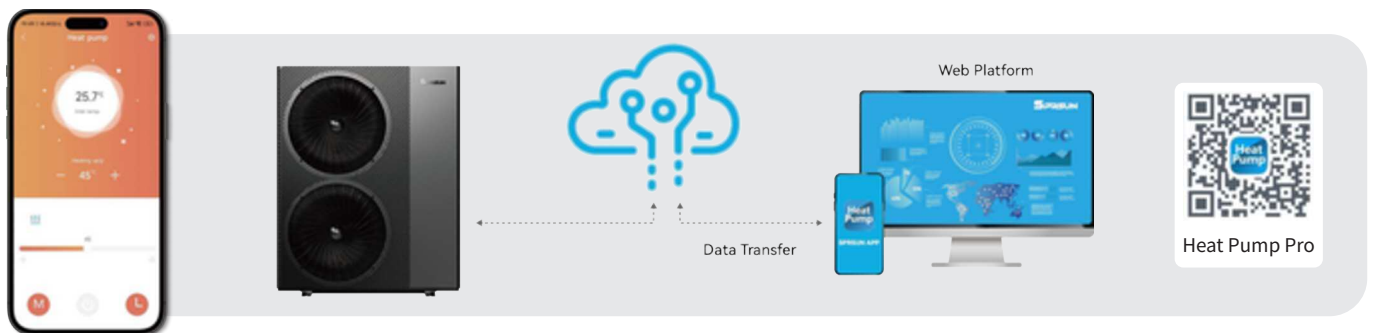
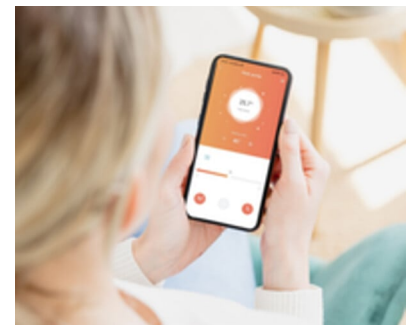
Working Principle

SPRSUN's self-developed smart control system is equipped with highly integrated control functions, which can be operated via a remote APP. The system is easy to manipulate, stable in performance, and is truly a smart operating system that realizes man-machine separation.



Remote Control with APP and PC Platform

The mobile phone APP and the PC background both can be opened to users. Additionally, local dealers can use the smart data platform to provide remote product inspections for users, offering convenient and prompt assistance in problem resolution.



Heating in Low Temperature

SPRSUN's innovative DC inverter technology uses DC inverter compressors and controllers, and greatly improves heating capacity in low-temperature environments by optimising the overall system operation scheme. This allows SPRSUN heat pumps to support efficient home heating as low as -30°C .

Panasonic



Key Components

We believe that by joining hands and working together, we will be able to create greater value for our customers. We cooperate with leading companies such as Panasonic, CAREL, Grundfos, Copeland, MITSUBISHI, Schneider and SANYO to ensure upgraded product quality.



Controller

CAREL Touch Screen Controller 4.3



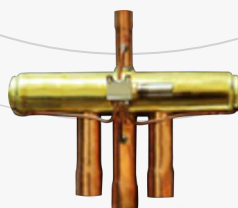
Compressor

Panasonic Rotary Compressor



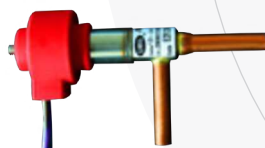
Water Pump

Grundfos



4-way valve

SANHUA



Expansion valve

CAREL Electronic Expansion valve



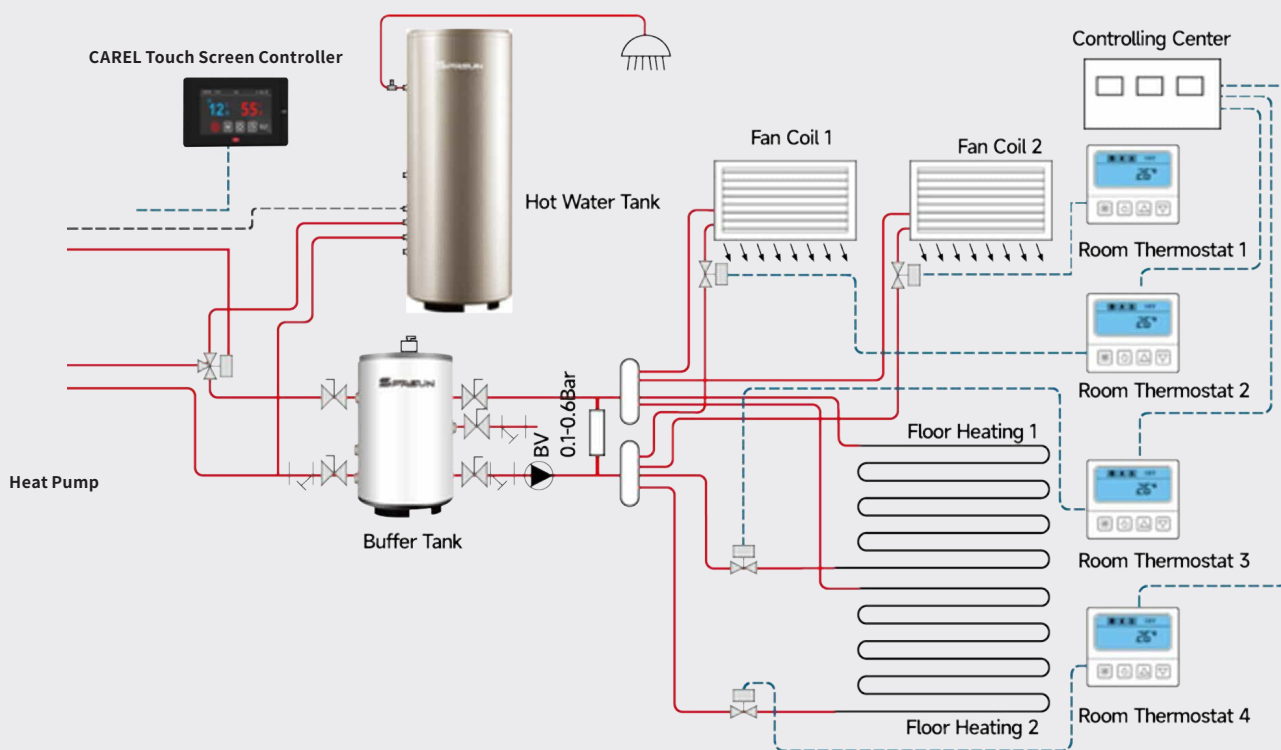
Condenser

Plate Heat Exchanger



Installation Diagram

- Pls select the right mode 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.
- 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.
- Fan coil can be controlled by linkage with the secondary circulation pump. Meanwhile, a passive linkage thermostat shall be installed.
- The water outlet of the heat pump needs to install an automatic air exhaust valve so that the water system can be discharged to the outside when there is gas.



Specifications

Model		CGK030V4P	CGK040V4P	CGK050V4P	CGK060V4P	CGK-030V4P	CGK-040V4P	CGK-050V4P	CGK-060V4P
Power Supply	V/Hz/Ph	220-240/50/1				380-420/50/3			
Heating condition: Ambient Temp : 7°C , Outlet water temp: 35°C									
Max. Heating Capacity	kW	9.5	11.5	15.5	18.5	9.5	11.5	15.5	18.5
C.O.P	W/W	4.42	4.44	4.42	4.14	4.42	4.44	4.42	4.14
Heating Capacity Min./Max.	kW	4.37 /9.50	5.29 /11.50	7.13 /15.50	8.51 /18.50	4.37 /9.50	5.29 /11.50	7.13 /15.50	8.51 /18.50
Heating Power Input Min./Max.	W	778 /2149	938 /2590	1241 /3507	1523 /4469	778 /2149	938 /2590	1241 /3507	1523 /4469
C.O.P Min./Max.	W/W	4.42/5.61	4.44/5.64	4.42/5.75	4.14/5.59	4.42/5.61	4.44/5.64	4.42/5.75	4.14/5.59
Heating condition: Ambient Temp : 7°C , Outlet water temp: 45°C									
Max. Heating Capacity	kW	8.9	10.7	14.1	17.7	8.9	10.7	14.1	17.7
C.O.P	W/W	3.64	3.77	3.71	3.62	3.64	3.77	3.71	3.62
Heating Capacity Min./Max.	kW	4.09 /8.88	4.92 /10.70	6.49 /14.11	8.13 /17.67	4.09 /8.88	4.92 /10.70	6.49 /14.11	8.13 /17.67
Heating power input Min./Max.	W	958 /2439	1148 /2834	1486 /3799	1913 /5334	958 /2512	1148 /3011	1486 /3989	1913 /5334
C.O.P Min./Max.	W/W	3.64 /4.27	3.77 /4.29	3.71 /4.37	3.31 /4.25	3.54 /4.27	3.55 /4.29	3.54 /4.37	3.31 /4.25
Cooling condition: Ambient Temp : 35°C , Outlet water temp: 18°C									
Max. Cooling Capacity	kW	8.4	10.2	13.4	16.8	8.4	10.2	13.4	16.8
E.E.R	W/W	3.53	3.66	3.60	3.51	3.53	3.66	3.60	3.51
Cooling Capacity Min./Max.	kW	3.88 /8.44	4.67 /10.16	6.16 /13.40	7.72 /16.78	3.88 /8.44	4.67 /10.16	6.16 /13.40	7.72 /16.78
Cooling Power Input Min./Max.	W	928 /2389	1113 /2775	1440 /3721	1855 /4780	928 /2389	1113 /2775	1440 /3721	1855 /4780
E.E.R Min./Max.	W/W	3.53 /4.18	3.66 /4.20	3.60 /4.28	3.51 /4.16	3.53 /4.18	3.66 /4.20	3.60 /4.28	3.51 /4.16
Cooling condition: Ambient Temp : 35°C , Outlet water temp: 7°C									
Max. Cooling Capacity	kW	7.5	9.0	11.5	14.5	7.5	9.0	11.5	14.5
E.E.R	W/W	2.90	2.92	2.75	2.82	2.90	2.92	2.75	2.82
Cooling Capacity Min./Max.	kW	3.45 /7.50	4.14 /9.00	5.29 /11.50	6.67 /14.50	3.45 /7.50	4.14 /9.00	5.29 /11.50	6.67 /14.50
Cooling Power Input Min./Max.	W	938 /2586	1120 /3082	1405 /4182	1821 /5142	938 /2586	1120 /3082	1405 /4182	1821 /5142
E.E.R Min./Max.	W/W	2.90 /3.68	2.92 /3.70	2.75 /3.77	2.82 /3.66	2.90 /3.68	2.92 /3.70	2.75 /3.77	2.82 /3.66
Max Power Input	kW	4.36	5.05	6.80	7.83	4.36	5.05	6.80	7.83
Max Current	A	20.86	24.16	32.54	37.46	9.20	10.66	14.35	16.52
Wire diameter	mm²	4.0	6.0	6.0	6.0	2.5	2.5	4.0	4.0
Fuse or circuitbreaker	A	32A	32A	40A	50A	13A	16A	20A	25A
Compressor	Type - Quantity/System	Twin Rotary - 1							
Fan	Quantity1	1	2	2	1	1	2	2	
	Airflow	m3/h	3000	3500	5000	5500	3000	3500	5000
	Rated power	W	100	120	200	210	100	120	200
Water Side Heat Exchanger	Type	Plate Heat Exchanger							
	Water Pressure Drop	kPa	20	21	23	25	20	21	23
	Piping Connection	Inch	G1"	G1"	G1"	G1"	G1"	G1"	G1"
Pump model	--	UPM4XLK 25-90 130		UPM10L 25-105 130		UPM4XLK 25-90 130		UPM10L 25-105 130	
Max Water Pump Head	m	9	9	10.5	10.5	9	9	10.5	10.5
Allowable Water Flow Min./Rated./Max.	L/S	0.28 /0.45 /0.76	0.34/0.55/0.92	0.46 /0.74/1.23	0.55 /0.88/1.47	0.28/0.45/0.76	0.34/0.55 /0.92	0.46 /0.74 /1.23	0.55/0.88/1.47
Sound pressure level(1m)	dB(A)	41.2~50.6	40.4~49.2	40.4~50.8	44.7~51	41.2~49.7	41.1~52	41.7~50.7	42.4~49
Sound power level(1m)	dB(A)	60.7	59.8	62.1	63.2	60.3	61.6	61.6	61.1
SCOP (35/55°C)	kWh	4.76/3.62	4.79/3.66	4.69/3.62	4.80/3.68	4.77/3.6	4.78/3.63	4.71/3.64	4.76/3.69
Refrigerant	--	R290							
ErP Level(35° C)	--	A+++							
ErP Level(55° C)	--	A++							
Cabinet Type	--	Weather-resistant pp+Galanizedsheet metal+ABS							
Net Weight	kg	112	125	145	147	112	125	145	147
Carton gross Weight	kg	125	138	160	172	125	138	160	172
Splint gross Weight	kg	148	161	182	184	148	161	182	184
Net Dimension(L*D*H)	mm	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355
Carton packing Dimension(L*D*H)	mm	1165*505*960	1165*505*1100	1165*505*1520	1165*505*1520	1165*505*960	1165*505*1100	1165*505*1520	1165*505*1520
Splint packing Dimension(L*D*H)	mm	1200*530*970	1200*530*1120	1200*530*1510	1200*530*1510	1220*530*970	1200*530*1120	1200*530*1510	1200*530*1510

All technical data is compliant with the guidelines specified in the following standards: EN14511; EN14825:2022; EN12102-1:2022; EN14511-3:2022; EN14511-4:2022 Clause4; (EU) NO. 813:2013; OJ 2014/ C207/02:2014. The SCOP seasonal heating efficiency is determined for temperate climate conditions.

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For updated product information, please visit <https://sprsunheatpump.com/>.



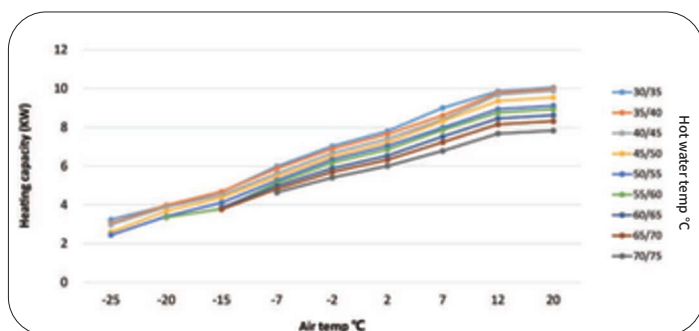
Specifications

SPRSUN CGK030V4P / CGK-030V4P

R290 Refrigerant/High Safety Performance/ErP A+++

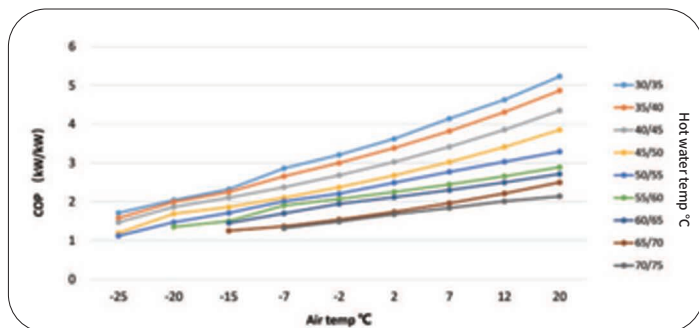
Power Supply	V/Hz/Ph	220-240/50/1, 380-420/50/3
Sound Pressure (1m)	dB(A)	41.2~50.6, 41.2~49.7
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	105
Net Dimension(L*D*H)	mm	1110 × 475 × 810

CGK030V4P/CGK-030V4P Heating capacity



Air temp °C	Heating capacity (kW)								
-25	3.24	3.05	2.98	2.60	2.45	/	/	/	/
-20	3.95	3.98	3.89	3.68	3.40	3.35	/	/	/
-15	4.66	4.68	4.51	4.38	4.11	3.80	3.85	3.77	/
-7	5.98	5.87	5.61	5.45	5.25	5.12	4.97	4.82	4.64
-2	7.02	6.89	6.66	6.49	6.33	6.17	5.88	5.69	5.40
2	7.80	7.65	7.40	7.21	7.03	6.85	6.53	6.32	6.00
7	9.00	8.60	8.40	8.32	7.98	7.86	7.52	7.23	6.78
12	9.85	9.78	9.68	9.35	8.93	8.75	8.45	8.15	7.67
20	10.05	9.97	9.88	9.54	9.11	8.93	8.62	8.31	7.83
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75

CGK030V4P/CGK-030V4P COP



Air temp °C	COP (kW/kW)								
-25	1.71	1.58	1.47	1.19	1.12	/	/	/	/
-20	2.04	1.99	1.86	1.69	1.47	1.35	/	/	/
-15	2.32	2.25	2.10	1.86	1.71	1.50	1.45	1.25	/
-7	2.86	2.66	2.37	2.10	2.01	1.90	1.70	1.36	1.32
-2	3.21	3.00	2.68	2.37	2.21	2.07	1.95	1.54	1.49
2	3.62	3.38	3.03	2.68	2.49	2.25	2.11	1.74	1.68
7	4.14	3.82	3.41	3.02	2.77	2.44	2.30	1.96	1.84
12	4.63	4.31	3.85	3.41	3.03	2.66	2.50	2.21	2.01
20	5.23	4.86	4.35	3.85	3.29	2.89	2.72	2.50	2.14
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75

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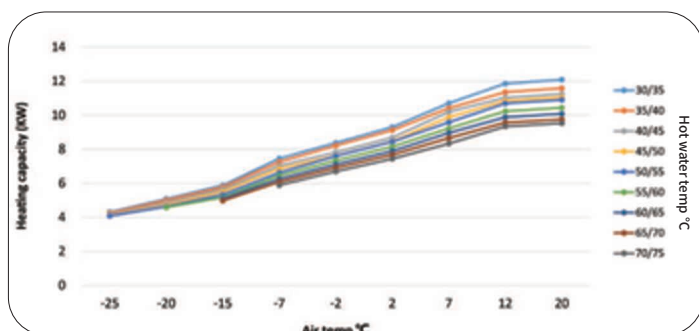
Specifications

SPRSUN CGK040V4P / CGK-040V4P

R290 Refrigerant/High Safety Performance/ErP A+++

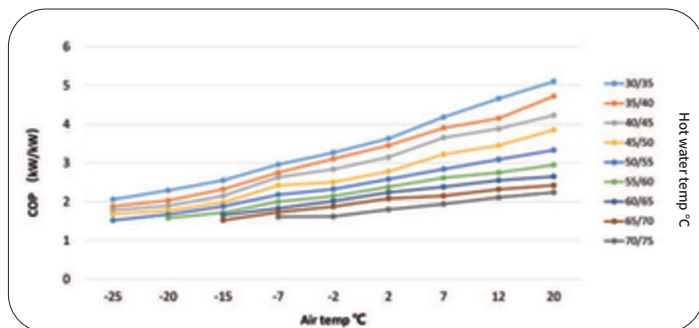
Power Supply	V/Hz/Ph	220-240/50/1, 380-420/50/3
Sound Pressure (1m)	dB(A)	40.4~49.2, 41.1~52
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	88
Net Dimension(L*D*H)	mm	1110 × 475 × 960

CGK040V4P/CGK-040V4P Heating capacity



Air temp °C	Heating capacity (kW)									
-25	4.31	4.25	4.17	4.10	4.08	/	/	/	/	/
-20	5.08	5.00	4.86	4.72	4.63	4.58	/	/	/	/
-15	5.88	5.78	5.65	5.50	5.33	5.17	5.10	4.98	/	/
-7	7.45	7.25	7.03	6.85	6.62	6.45	6.25	6.08	5.89	/
-2	8.37	8.21	7.81	7.61	7.60	7.34	7.10	6.91	6.70	/
2	9.30	9.12	8.68	8.46	8.44	8.15	7.89	7.68	7.44	/
7	10.70	10.41	10.20	9.88	9.58	9.22	8.95	8.65	8.33	/
12	11.85	11.35	11.02	10.84	10.69	10.23	9.88	9.56	9.34	/
20	12.09	11.58	11.24	11.06	10.90	10.43	10.08	9.75	9.53	/
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75	

CGK040V4P/CGK-040V4P COP



Air temp °C	COP (kW/kW)									
-25	2.06	1.88	1.78	1.68	1.52	/	/	/	/	/
-20	2.29	2.03	1.89	1.77	1.67	1.58	/	/	/	/
-15	2.55	2.32	2.15	1.98	1.88	1.72	1.66	1.52	/	/
-7	2.96	2.75	2.63	2.42	2.18	2.00	1.83	1.73	1.61	/
-2	3.27	3.11	2.84	2.50	2.32	2.14	2.02	1.87	1.62	/
2	3.63	3.45	3.15	2.78	2.58	2.38	2.24	2.08	1.80	/
7	4.18	3.90	3.65	3.22	2.84	2.62	2.38	2.15	1.94	/
12	4.66	4.15	3.88	3.45	3.09	2.75	2.55	2.32	2.11	/
20	5.10	4.72	4.23	3.85	3.33	2.95	2.65	2.42	2.24	/
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75	

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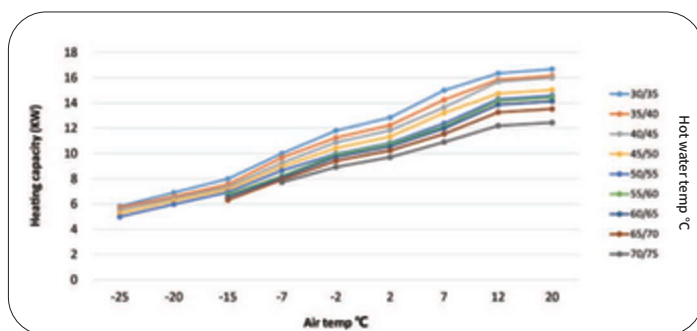
Specifications

SPRSUN CGK050V4P / CGK-050V4P

R290 Refrigerant/High Safety Performance/ErP A+++

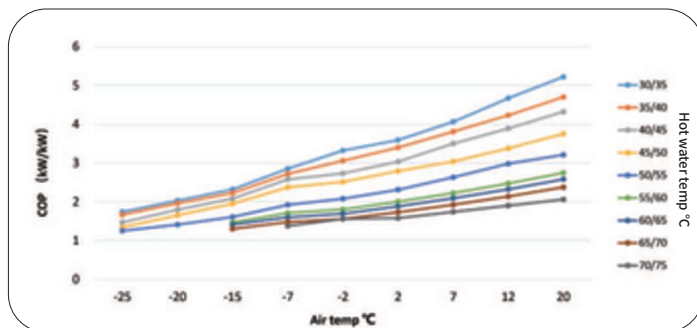
Power Supply	V/Hz/Ph	220-240/50/1, 380-420/50/3
Sound Pressure (1m)	dB(A)	40.4~50.8, 41.7~50.7
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	124
Net Dimension(L*D*H)	mm	1110 × 475 × 1355

CGK050V4P/CGK-050V4P Heating capacity



Air temp °C	Heating capacity (kW)									
-25	5.82	5.72	5.51	5.25	4.99	/	/	/	/	/
-20	6.90	6.60	6.45	6.25	5.98	/	/	/	/	/
-15	7.99	7.55	7.35	7.15	6.93	6.74	6.55	6.32	/	/
-7	10.00	9.67	9.25	8.96	8.66	8.22	8.09	7.92	7.72	/
-2	11.81	11.25	10.88	10.42	9.96	9.89	9.71	9.41	8.92	/
2	12.84	12.23	11.83	11.33	10.83	10.75	10.55	10.23	9.70	/
7	15.00	14.25	13.65	13.21	12.38	12.12	11.98	11.55	10.90	/
12	16.35	15.84	15.68	14.74	14.29	14.15	13.86	13.26	12.20	/
20	16.68	16.16	16.00	15.04	14.58	14.43	14.14	13.53	12.44	/
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75	

CGK050V4P/CGK-050V4P COP



Air temp °C	COP (kW/kW)									
-25	1.74	1.67	1.47	1.34	1.25	/	/	/	/	/
-20	2.03	1.96	1.80	1.65	1.41	/	/	/	/	/
-15	2.32	2.23	2.08	1.95	1.61	1.47	1.41	1.30	/	/
-7	2.85	2.72	2.58	2.37	1.92	1.71	1.60	1.48	1.37	/
-2	3.32	3.06	2.73	2.51	2.08	1.80	1.69	1.56	1.56	/
2	3.59	3.40	3.03	2.79	2.31	2.00	1.88	1.73	1.58	/
7	4.06	3.81	3.50	3.04	2.63	2.22	2.09	1.92	1.74	/
12	4.67	4.23	3.89	3.38	2.98	2.47	2.32	2.14	1.90	/
20	5.22	4.70	4.32	3.75	3.21	2.75	2.58	2.37	2.06	/
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75	

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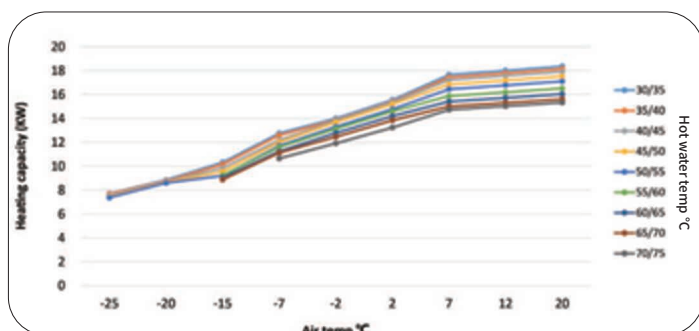
Specifications

SPRSUN CGK060V4P / CGK-060V4P

R290 Refrigerant/High Safety Performance/ErP A+++

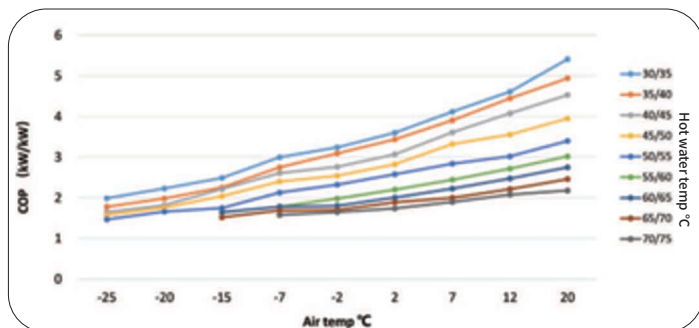
Power Supply	V/Hz/Ph	220-240/50/1, 380-420/50/3
Sound Pressure (1m)	dB(A)	44.7~51, 42.4~49
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	124
Net Dimension(L*D*H)	mm	1110 × 475 × 1355

CGK060V4P/CGK-060V4P Heating capacity



Air temp °C	Heating capacity (kW)								
-25	7.71	7.68	7.58	7.45	7.37	/	/	/	/
-20	8.85	8.75	8.69	8.65	8.60	/	/	/	/
-15	10.32	10.15	9.85	9.55	9.20	9.24	9.05	8.88	/
-7	12.77	12.60	12.20	12.02	11.72	11.60	11.24	11.13	10.65
-2	14.00	13.88	13.82	13.68	13.30	13.14	12.78	12.47	11.92
2	15.56	15.42	15.35	15.20	14.78	14.60	14.20	13.85	13.24
7	17.66	17.45	17.23	16.85	16.45	15.88	15.42	15.01	14.74
12	18.01	17.80	17.57	17.19	16.78	16.20	15.73	15.31	15.03
20	18.37	18.15	17.93	17.53	17.11	16.52	16.04	15.62	15.34
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75

CGK060V4P/CGK-060V4P COP



Air temp °C	COP (kW/kW)								
-25	1.99	1.78	1.65	1.58	1.47	/	/	/	/
-20	2.23	1.98	1.82	1.76	1.66	/	/	/	/
-15	2.49	2.25	2.22	2.04	1.75	1.64	1.65	1.52	/
-7	3.00	2.75	2.61	2.40	2.13	1.78	1.78	1.69	1.58
-2	3.24	3.09	2.76	2.54	2.32	1.98	1.80	1.70	1.65
2	3.60	3.44	3.07	2.82	2.58	2.20	2.00	1.89	1.74
7	4.12	3.91	3.61	3.32	2.84	2.45	2.23	2.00	1.90
12	4.61	4.45	4.08	3.56	3.02	2.72	2.48	2.21	2.08
20	5.41	4.94	4.53	3.95	3.40	3.02	2.75	2.46	2.18
Hot water temp °C	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75

* 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.





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