SPRSUN

www.sprsun.com

JunglePro Series

R32 DC Inverter Air Source Heat Pumps

R32 REFRIGERANT

- Multiple Modes for Comfortable Use
- Max.C.O.P 5.95 — High Energy Efficiency
- WIFI Control
- -25℃ — Stable Running Ambient
- A+++ — ERP A+++ Performance
- CAREL Controller
- KEYMARK Certification

R32 Refrigerant

R32 refrigerant is an environmentally friendly refrigerant with low global warming potential and ozone depletion potential. Using R32 refrigerant in heat pump systems can improve operational performance and efficiency, reduce energy consumption and carbon emissions, and become a key element of sustainable development. Combined with the intelligent control system developed by SPRSUN and excellent product design, the advantages of R32 refrigerant are fully utilized to contribute to sustainable development.

High Heating Efficiency

TÜV SÜD
Product Service

The unit can operate at high frequency to heat water at a faster speed. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain temperature.

47 dB

Sound Pressure (1m)

- 20dB-Rustle of Leaves
- 30dB-Whisper
- 70dB-Car

* This data is from laboratory environmental testing.

Smart Control

The CAREL controller is able to record temperatures unaided using sensors that record the surrounding conditions. With the WIFI online monitoring, customers will enjoy contactless support from our customer service center no matter where they are.

SPRSUN Smart Control System

Hot Water

Radiator Heating

House Cooling

Floor Heating

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.

Wi Fi

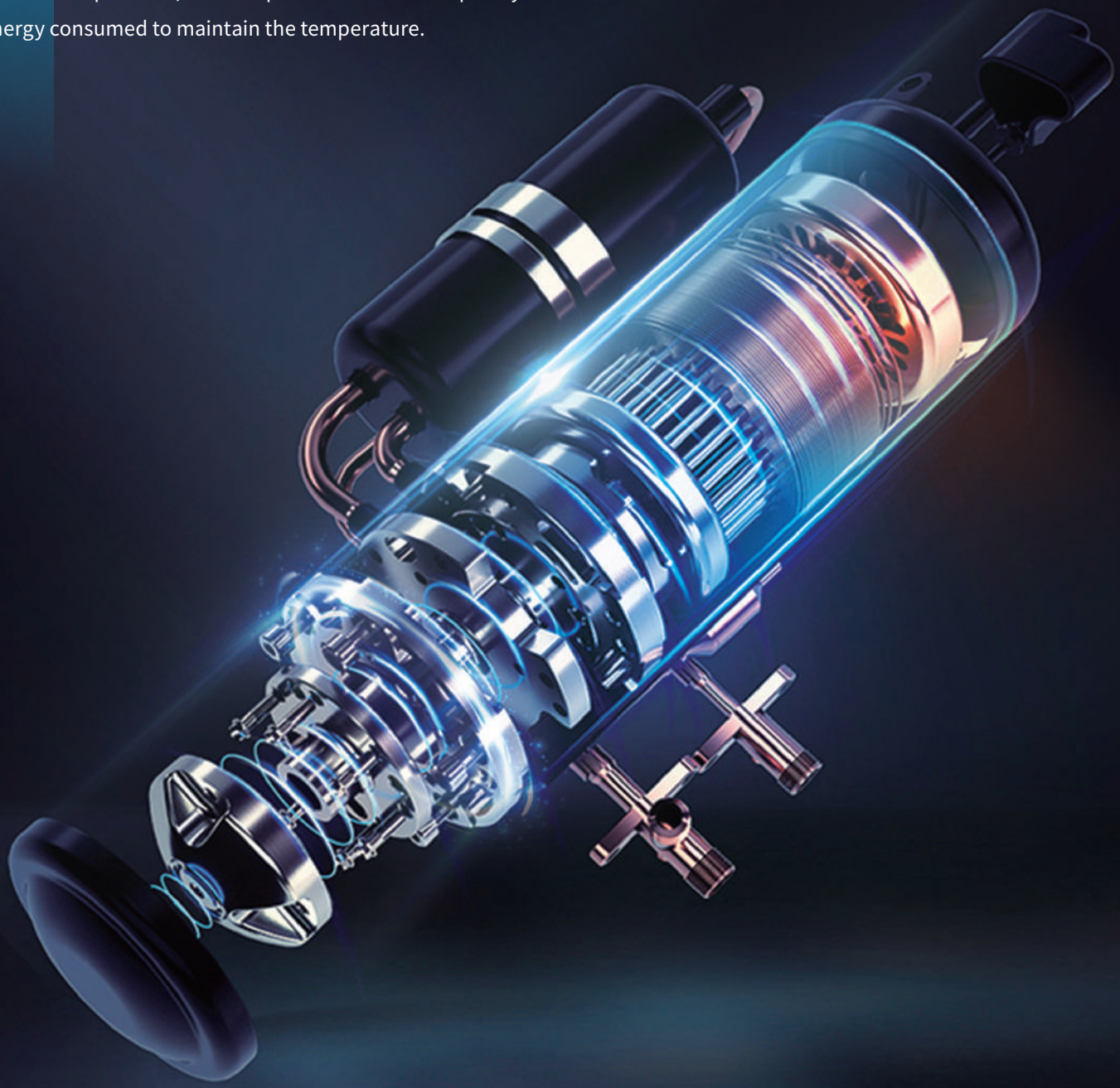
Heat Pump SPRSUN

Download on the App Store

GET IT ON Google Play

Heating in Low Temperature

Regulate heating and cooling using DC inverter compressors and DC inverter controllers; SPRSUN DC inverter heat pumps can operate at high frequency to heat water faster. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain the temperature.



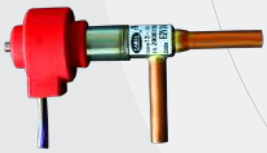
Key Components

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 Controller

Compressor
Panasonic Rotary Compressor

DC Fan
WOLONG Brushless DC Fan



Expansion valve
CAREL Electronic Expansion valve

4-way valve
SANHUA

Pressure Sensor
CAREL Pressure Sensor

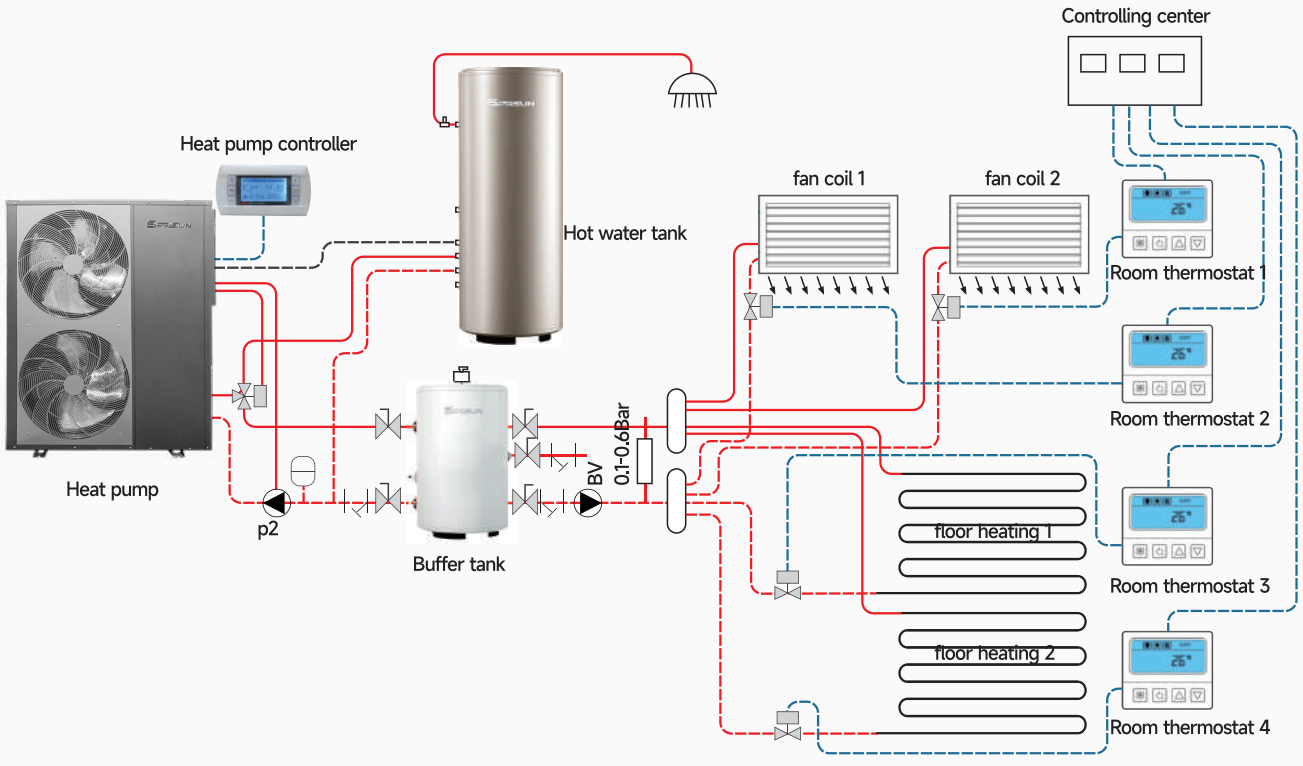
Installation Diagram

Notice:

1. Please select the right modes according to your demand, then install it according to the installation diagram. If only hot water function is required, please 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 in different zones, please install both.

3. Fan coil can be controlled by linkage with the secondary circulation pump. Meanwhile, a passive linkage thermostat shall be installed.



Specifications （220V）

Model			CGK015V3L	CGK025V3L	CGK030V3L	CGK040V3L	CGK050V3L	CGK060V3L
Power Supply / Refrigerant		V/Hz/Ph	220-240/50/1 - R32					
Heating condition: water inlet/outlet temperature: 30°C /35°C , Ambient temperature: DB 7°C /WB 6°C ;								
Max. Heating Capacity		kW	6	9.5	12	16	20	22
C.O.P		W/W	4.45	4.58	4.45	4.71	4.75	4.62
Heating Capacity Min./Max.		kW	2.76/6	4.37/9.5	5.52/12	7.36/16	9.2/20	10.12/22
Heating Power Input Min./Max.		W	496 /1348	763 /2074	992 /2697	1250 /3397	1549 /4211	1752 /4762
C.O.P Min./Max.		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
Heating condition: water inlet/outlet temperature: 40°C /45°C , Ambient temperature: DB 7°C /WB 6°C ;								
Max. Heating Capacity		kW	5.8	9.1	11.5	15.4	19.2	21.1
C.O.P		W/W	3.60	3.71	3.60	3.82	3.85	3.70
Heating Capacity Min./Max.		kW	2.65 /5.76	4.20 /9.12	5.30 /11.52	7.07 /15.36	8.83 /19.20	9.72 /21.12
Heating power input Min./Max.		W	627 /1618	964 /2489	1254 /3236	1579 /4076	1957 /5053	2214 /5714
C.O.P Min./Max.		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
Cooling condition: water inlet/outlet temperature: 23°C /18°C , Ambient temperature: DB35°C /WB24°C ;								
Max. Cooling Capacity		kW	5.5	8.7	10.9	14.6	18.2	20.1
E.E.R		W/W	3.50	3.60	3.50	3.70	3.73	3.59
Cooling Capacity Min./Max.		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
Cooling Power Input Min./Max.		W	608 /1852	935 /2849	1215 /3704	1531 /4666	1897 /5783	2146 /6540
E.E.R Min./Max.		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
Cooling condition: water inlet/outlet temperature: 12°C /7°C , Ambient temperature: DB35°C /WB24°C ;								
Max. Cooling Capacity		kW	3.9	6.2	8.6	10.4	14.4	15.8
E.E.R		W/W	2.52	2.59	2.62	2.66	2.80	2.69
Cooling Capacity Min./Max.		kW	1.80 /3.92	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.		W	494 /1559	760 /2399	1090 /3440	1245 /3929	1702 /5371	1925 /6075
E.E.R Min./Max.		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
Rated Current		A	6.5	9.9	12.9	16.3	20.1	22.8
Max Power Input		kW	2.0	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
Fuse or circuitbreakerer		A	16A	20A	25A	32A	40A	40A
Compressor	Type - Quantity/System		Twin Rotary - 1					
Fan	Quantity		1	1	1	1	2	2
	Airflow	m3/h	1500	2500	3000	3500	5000	5500
	Rated power	W	60	80	100	120	200	210
Water Side Heat Exchanger	Type		Plate Heat Exchanger					
	Water Pressure Drop	kPa	14	18	20	21	23	25
	Piping Connection	Inch	G3/4"	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
Sound Pressure (1m)		dB(A)	/	47	48	53	51	54
Sound power Level		dB(A)	/	61	63	68	67	70
CO2 Equivalent		Ton	0.675	1.0125	1.1475	1.4175	1.89	1.89
ErP Level(35° C)		/	/	A+++				
Cabinet Type		/	Galvanized steel painting					
Refrigerant / Proper Input		Kg	R32/1000g	R32/1500g	R32/1700g	R32/2100g	R32/2800g	R32/2800g
SCOP			/	4.46	4.47	4.45	4.57	4.60
Net Dimension(L×D×H)		mm	990*375*655	1110*475*810	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355
Packing Dimension(L×D×H)		mm	1070*405*800	1200*540*970	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510
Net Weight		Kg	59	80	88	98	124	124
Gross Weight		Kg	80	108	116	126	161	161

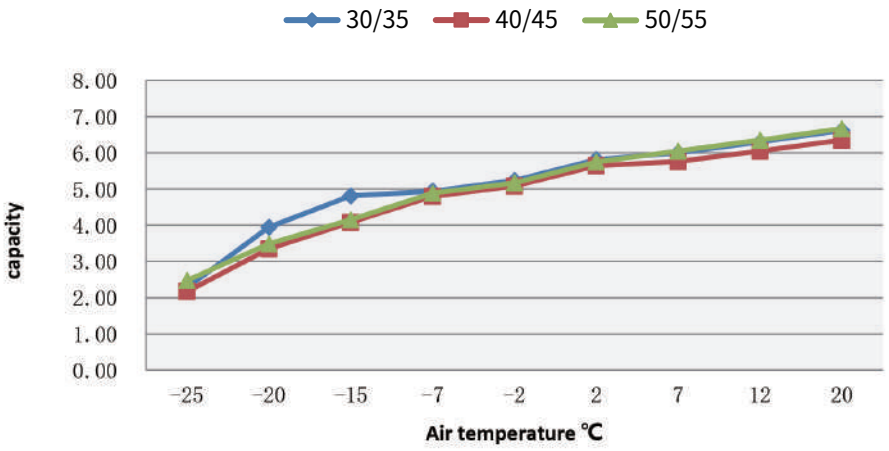
Specifications（380V）

Model		CGK-025V3L	CGK-030V3L	CGK-040V3L	CGK-050V3L	CGK-060V3L	CGK-080V3L	CGK-100V3L
Power Supply / Refrigerant	V/Hz/Ph	380-420/50/3 - R32						
Heating condition: water inlet/outlet temperature: 30℃ /35℃ , Ambient temperature: DB 7℃ /WB 6℃ ;								
Max. Heating Capacity	kW	9.5	12	16	20	22	27	36
C.O.P	W/W	4.58	4.45	4.71	4.76	4.65	4.65	4.65
Heating Capacity Min./Max.	kW	4.37/9.5	5.52/12	7.36/16	9.2/20	10.12/22	12.42/27	16.56/36
Heating Power Input Min./Max.	W	763 /2074	992 /2697	1250 /3397	1546 /4202	1741 /4731	2137 /5806	2849 /7742
C.O.P Min./Max.	W/W	4.58/5.73	4.45/5.56	4.71/5.89	4.76/5.95	4.65/5.81	4.65/5.81	4.65/5.81
Heating condition: water inlet/outlet temperature: 40℃ /45℃ , Ambient temperature: DB 7℃ /WB 6℃ ;								
Max. Heating Capacity	kW	9.1	11.5	15.4	19.2	21.1	25.9	34.6
C.O.P	W/W	3.71	3.60	3.82	3.81	3.60	3.60	3.60
Heating Capacity Min./Max.	kW	4.20 /9.12	5.30 /11.52	7.07 /15.36	8.83 /19.20	9.72 /21.12	11.92 /25.92	15.90 /34.56
Heating power input Min./Max.	W	964 /2489	1254 /3236	1579 /4076	1953 /5042	2199 /5677	2699 /6968	3599 /9290
C.O.P Min./Max.	W/W	3.66 /4.35	3.56 /4.23	3.77 /4.47	3.81 /4.52	3.72 /4.42	3.72 /4.42	3.72 /4.42
Cooling condition: water inlet/outlet temperature: 23℃ /18℃ , Ambient temperature: DB35℃ /WB24℃ ;								
Max. Cooling Capacity	kW	8.7	10.9	14.6	18.2	20.1	24.6	32.8
E.E.R	W/W	3.60	3.50	3.70	3.69	3.50	3.50	3.50
Cooling Capacity Min./Max.	kW	3.99 /8.66	5.03 /10.94	6.71 /14.59	8.39 /18.24	9.23 /20.06	11.33 /24.62	15.10 /32.83
Cooling Power Input Min./Max.	W	935 /2849	1215 /3704	1531 /4666	1893 /5771	2132 /6498	2616 /7975	3489 /10634
E.E.R Min./Max.	W/W	3.04 /4.26	2.95 /4.14	3.13 /4.39	3.16 /4.43	3.09 /4.33	3.09 /4.33	3.09 /4.33
Cooling condition: water inlet/outlet temperature: 12℃ /7℃ , Ambient temperature: DB35℃ /WB24℃ ;								
Max. Cooling Capacity	kW	6.2	8.6	10.4	14.4	15.8	19.4	25.9
E.E.R	W/W	2.59	2.62	2.66	2.77	2.62	2.62	2.62
Cooling Capacity Min./Max.	kW	2.85 /6.20	3.97 /8.64	4.80 /10.44	6.62 /14.40	7.29 /15.84	8.94 /19.44	11.92 /25.92
Cooling Power Input Min./Max.	W	760 /2399	1090 /3440	1245 /3929	1699 /5360	1913 /6036	2347 /7407	3130 /9876
E.E.R Min./Max.	W/W	2.58 /3.75	2.51 /3.65	2.66 /3.86	2.69 /3.90	2.62 /3.81	2.62 /3.81	2.62 /3.81
Rated Current	A	4.4	5.7	7.2	8.9	10.0	12.3	16.3
Max Power Input	kW	3.0	3.9	4.9	6.1	6.9	8.4	11.2
Max Current	A	6.3	8.3	10.4	12.9	14.5	17.8	23.7
Fuse or circuitbreakerer	A	13A	13A	16A	20A	20A	25A	32A
Compressor	Type - Quantity/ System		Twin Rotary - 1					
Fan	Quantity		1	1	1	2	2	2	2
	Airflow	m3/h	2500	3000	3500	5000	5500	5500	5500
	Rated power	W	80	100	120	200	210	210	210
Water Side Heat Exchanger	Type		Plate Heat Exchanger						
	Water Pressure Drop	kPa	18	20	21	23	25	25	25
	Piping Connection	Inch	G1"	G1"	G1"	G1"	G1"	G1"	G1"
Allowable Water Flow	Min./Rated./Max.	L/S	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	0.81 /1.29 /2.15	1.07 /1.72 /2.87
Sound Pressure (1m)		dB(A)	47	49	52	48	53	/	/
Sound power Level		dB(A)	61	64	67	66	68	/	/
CO2 Equivalent		Ton	1.0125	1.1475	1.35	1.89	1.89	/	/
ErP Level(35° C)		/	A+++					/	/
Cabinet Type		/	Galvanized steel painting						
Refrigerant / Proper Input		Kg	R32/1500g	R32/1700g	R32/2000g	R32/2800g	R32/2800g	/	/
SCOP			4.46	4.45	4.51	4.55	4.59	/	/
Net Dimension(L×D×H)		mm	1110*475*810	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355	1110*475*1455	950*900*1950
Packing Dimension(L×D×H)		mm	1200*540*970	1220*540*970	1200*540*1120	1200*540*1510	1200*540*1510	1200*540*1610	1020*960*2125
Net Weight		Kg	80	88	98	124	124	160	270
Gross Weight		Kg	108	116	126	161	161	198	305

CGK015V3L

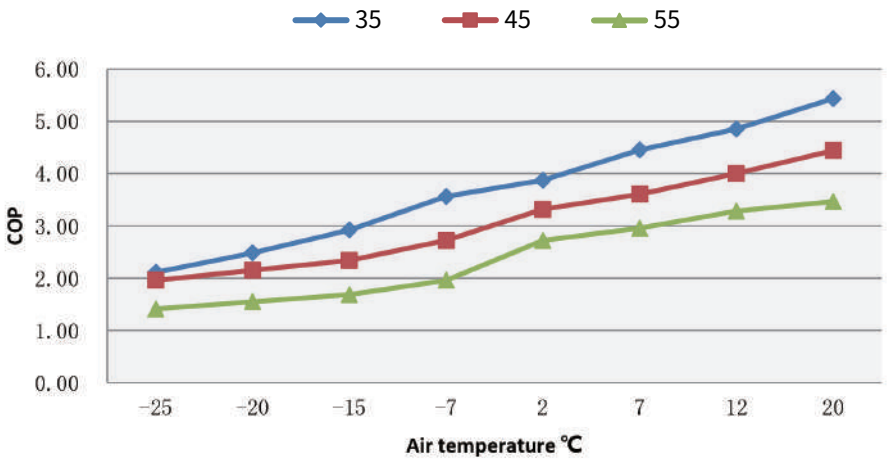
Heating Capacity at Different Conditions

CGK015V3L/CGK-015V3L Heating capacity



Air temp ℃	Heating capacity (KW)		
-25	2.28	2.17	2.48
-20	3.95	3.34	3.49
-15	4.81	4.08	4.15
-7	4.94	4.80	4.88
-2	5.23	5.08	5.17
2	5.81	5.64	5.75
7	6.00	5.76	6.05
12	6.30	6.05	6.35
20	6.62	6.35	6.67
Hot water temp ℃	30/35	40/45	50/55

CGK015V3L COP

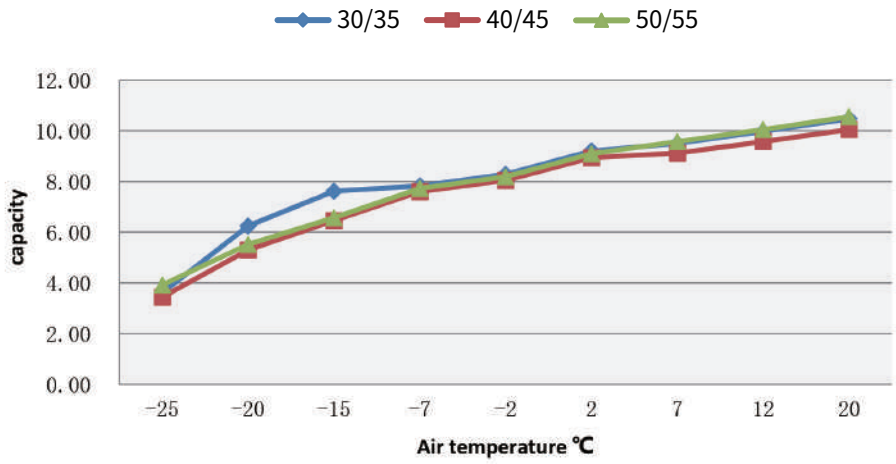


Air temp ℃	COP (kW/kW)		
-25	2.11	1.96	1.41
-20	2.48	2.15	1.55
-15	2.92	2.34	1.68
-7	3.56	2.72	1.96
2	3.87	3.32	2.72
7	4.45	3.60	2.96
12	4.85	4.00	3.28
20	5.43	4.44	3.46
Hot water temp ℃	35	45	55

CGK025V3L/CGK-025V3L

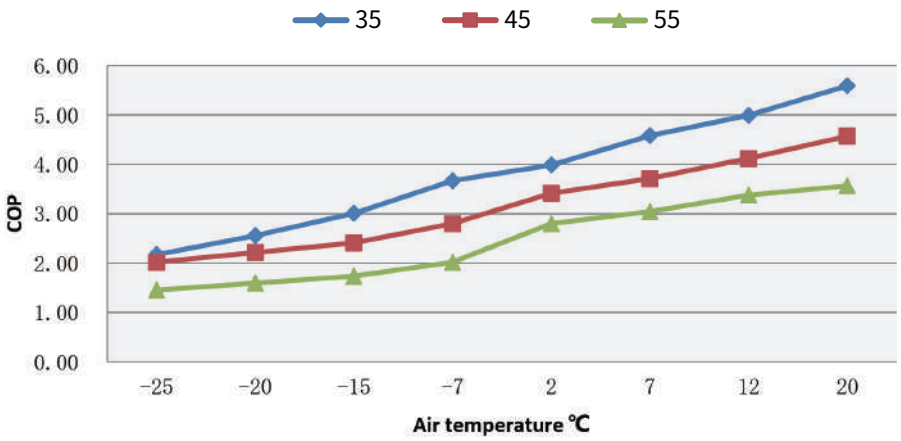
Heating Capacity at Different Conditions

CGK025V3L/CGK-025V3L Heating capacity



Air temp ℃	Heating capacity (KW)		
-25	3.61	3.44	3.92
-20	6.25	5.30	5.52
-15	7.62	6.46	6.57
-7	7.82	7.60	7.73
-2	8.29	8.04	8.19
2	9.21	8.94	9.10
7	9.50	9.12	9.58
12	9.98	9.58	10.05
20	10.47	10.05	10.56
Hot water temp ℃	**30/35**	**40/45**	**50/55**

CGK025V3L/CGK-025V3L COP

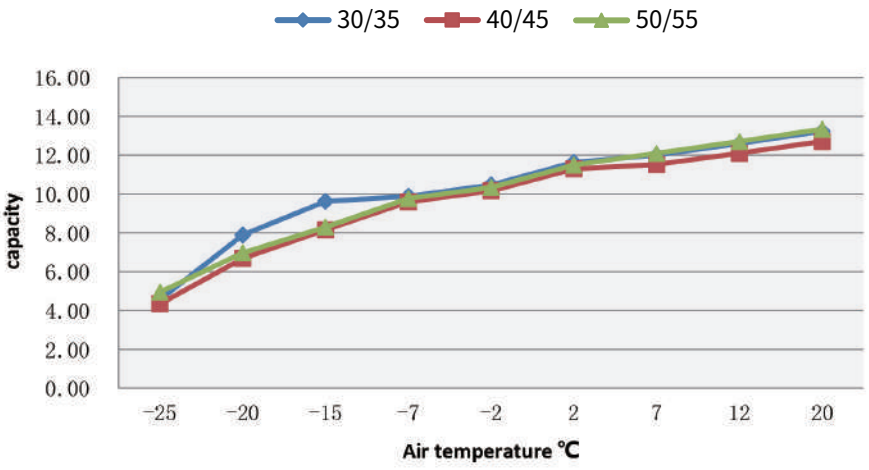


Air temp ℃	COP (kW/kW)		
-25	2.17	2.02	1.45
-20	2.56	2.21	1.59
-15	3.01	2.41	1.73
-7	3.67	2.80	2.02
2	3.98	3.41	2.80
7	4.58	3.71	3.04
12	4.99	4.12	3.38
20	5.59	4.57	3.57
Hot water temp ℃	**35**	**45**	**55**

CGK030V3L/CGK-030V3L

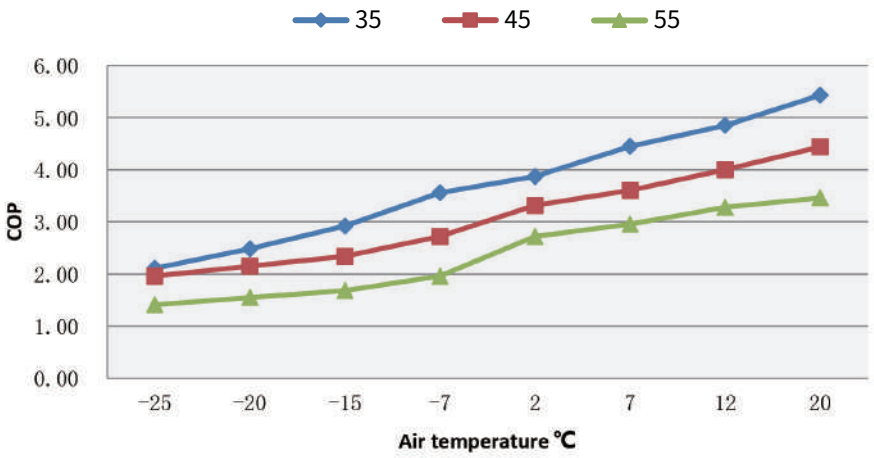
Heating Capacity at Different Conditions

CGK030V3L/CGK-030V3L Heating capacity



Air temp ℃	Heating capacity (KW)		
-25	4.56	4.35	4.95
-20	7.89	6.69	6.97
-15	9.62	8.16	8.30
-7	9.88	9.60	9.77
-2	10.47	10.16	10.34
2	11.63	11.29	11.49
7	12.00	11.52	12.10
12	12.60	12.10	12.70
20	13.23	12.70	13.34
Hot water temp ℃	30/35	40/45	50/55

CGK030V3L/CGK-030V3L COP

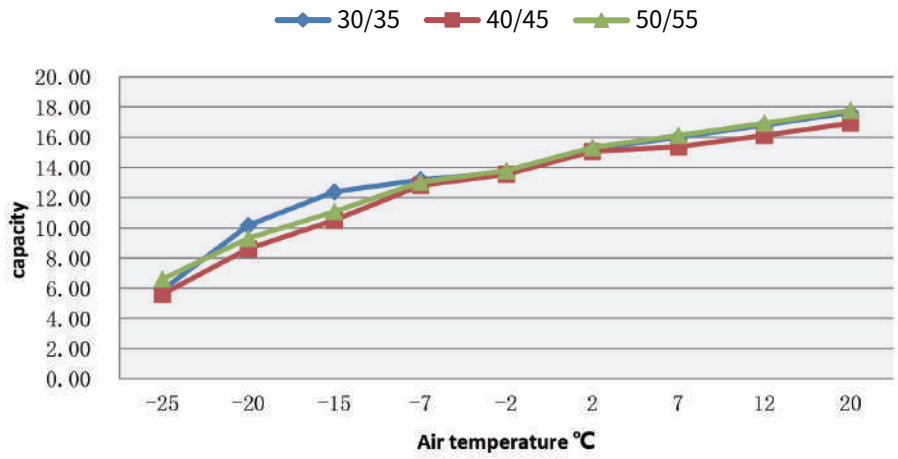


Air temp ℃	COP (kW/kW)		
-25	2.11	1.96	1.41
-20	2.48	2.15	1.55
-15	2.92	2.34	1.68
-7	3.56	2.72	1.96
2	3.87	3.32	2.72
7	4.45	3.60	2.96
12	4.85	4.00	3.28
20	5.43	4.44	3.46
Hot water temp ℃	35	45	55

CGK040V3L/CGK-040V3L

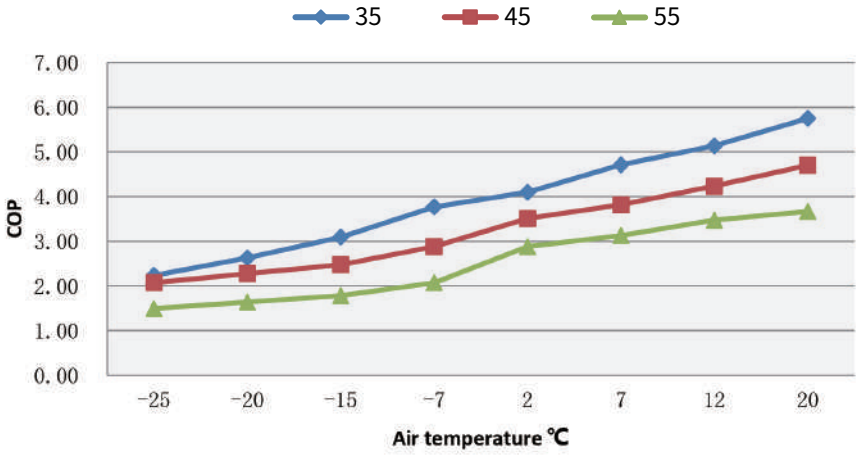
Heating Capacity at Different Conditions

CGK040V3L/CGK-040V3L Heating capacity



Air temp ℃	Heating capacity (KW)		
-25	5.87	5.59	6.60
-20	10.15	8.60	9.30
-15	12.38	10.49	11.07
-7	13.18	12.79	13.02
-2	13.68	13.55	13.79
2	15.20	15.05	15.32
7	16.00	15.36	16.13
12	16.80	16.13	16.93
20	17.64	16.93	17.78
Hot water temp ℃	30/35	40/45	50/55

CGK040V3L/CGK-040V3L COP

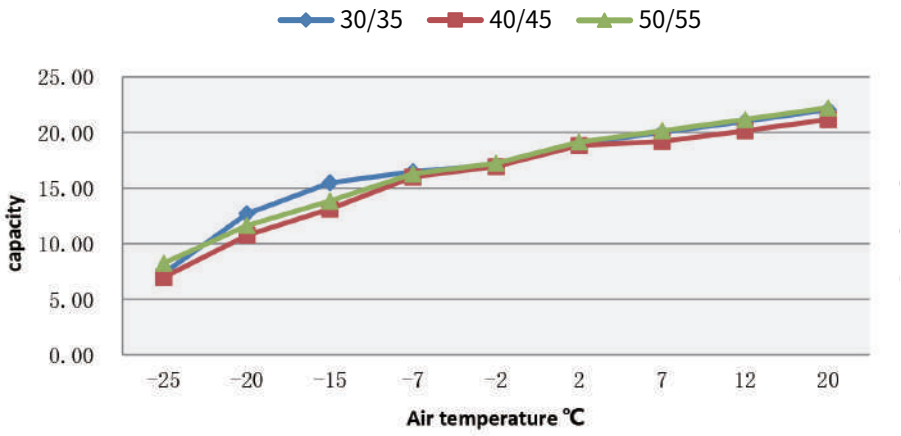


Air temp ℃	COP (kW/kW)		
-25	2.23	2.07	1.49
-20	2.63	2.28	1.64
-15	3.09	2.48	1.78
-7	3.77	2.88	2.07
2	4.10	3.51	2.88
7	4.71	3.82	3.13
12	5.13	4.23	3.47
20	5.75	4.70	3.67
Hot water temp ℃	35	45	55

CGK050V3L/CGK-050V3L

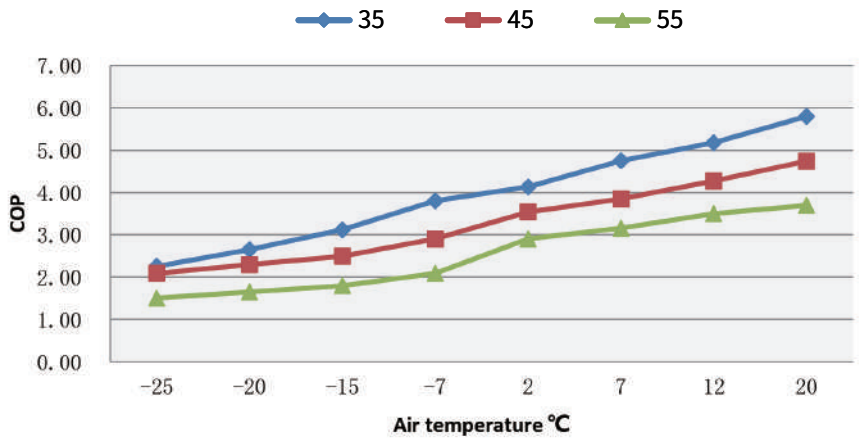
Heating Capacity at Different Conditions

CGK050V3L/CGK-050V3L Heating capacity



Air temp ℃	Heating capacity (KW)		
-25	7.34	6.99	8.25
-20	12.69	10.75	11.62
-15	15.48	13.11	13.84
-7	16.47	15.99	16.28
-2	17.10	16.93	17.24
2	19.00	18.82	19.15
7	20.00	19.20	20.16
12	21.00	20.16	21.17
20	22.05	21.17	22.23
Hot water temp ℃	30/35	40/45	50/55

CGK050V3L/CGK-050V3L COP

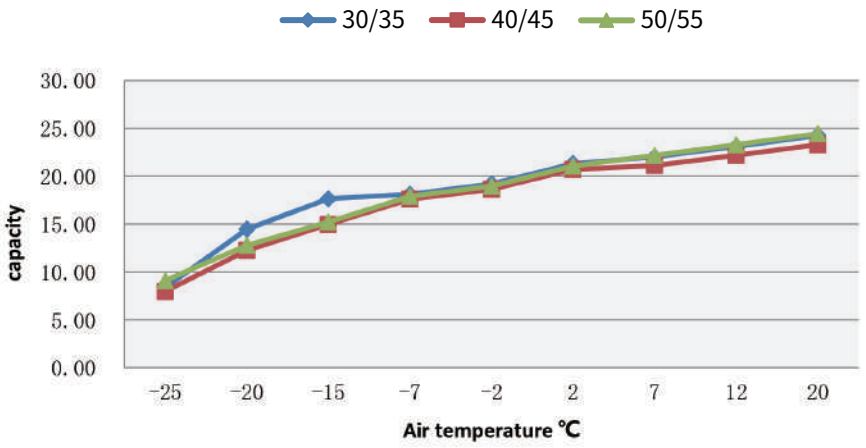


Air temp ℃	COP (kW/kW)		
-25	2.25	2.09	1.50
-20	2.65	2.30	1.65
-15	3.12	2.50	1.80
-7	3.80	2.90	2.09
2	4.13	3.54	2.90
7	4.75	3.85	3.15
12	5.18	4.27	3.50
20	5.80	4.74	3.70
Hot water temp ℃	35	45	55

CGK060V3L/CGK-060V3L

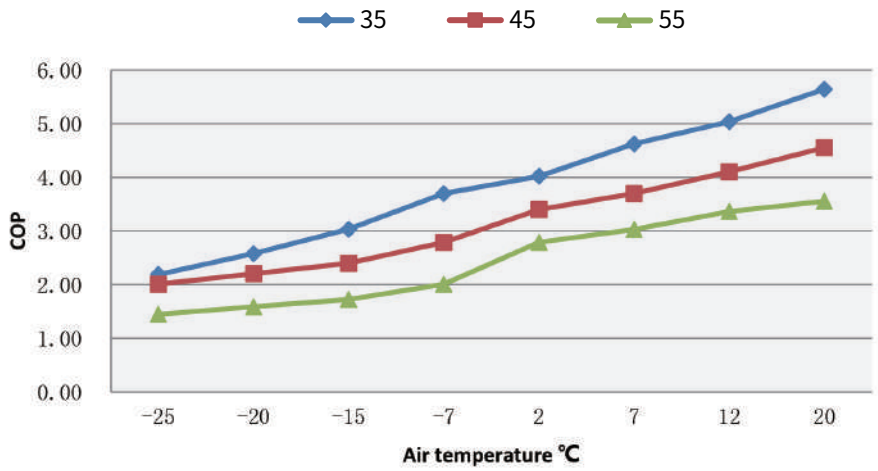
Heating Capacity at Different Conditions

CGK060V3L/CGK-060V3L Heating capacity



Air temp ℃	Heating capacity (KW)		
-25	8.37	7.97	9.08
-20	14.47	12.26	12.79
-15	17.65	14.95	15.22
-7	18.12	17.59	17.91
-2	19.19	18.63	18.96
2	21.32	20.70	21.07
7	22.00	21.12	22.18
12	23.10	22.18	23.28
20	24.26	23.28	24.45
Hot water temp ℃	30/35	40/45	50/55

CGK060V3L/CGK-060V3L COP



Air temp ℃	COP (kW/kW)		
-25	2.19	2.01	1.45
-20	2.58	2.21	1.59
-15	3.03	2.40	1.73
-7	3.70	2.79	2.01
2	4.02	3.40	2.79
7	4.62	3.70	3.03
12	5.04	4.10	3.36
20	5.64	4.55	3.55
Hot water temp ℃	35	45	55