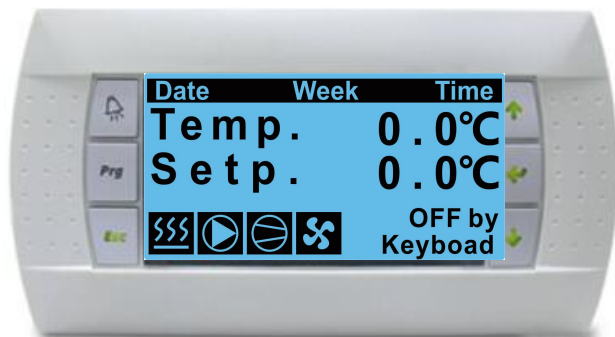


## DC Inverter Air Source Heat Pumps (Monoblock Type)

1. Working source temperature range:  $-20^{\circ}\text{C}$  to  $45^{\circ}\text{C}$
2. Control Object: water tank temperature  
(Setting range: Heating:  $30^{\circ}\text{C} \sim 55^{\circ}\text{C}$ ; Cooling:  $32^{\circ}\text{C} \sim 12^{\circ}\text{C}$ )
3. Control Way: wire controller
4. Water Pump: start/stop according to water tank temp
5. Modes: hot water/house heating/house cooling

**SPRSUN**



**CGK-080V2**




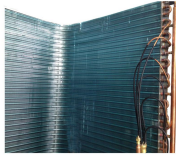







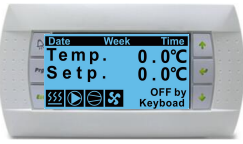

**CGK-100V2**



**Guangzhou Sprsun New Energy Technology Development Co., Ltd.**

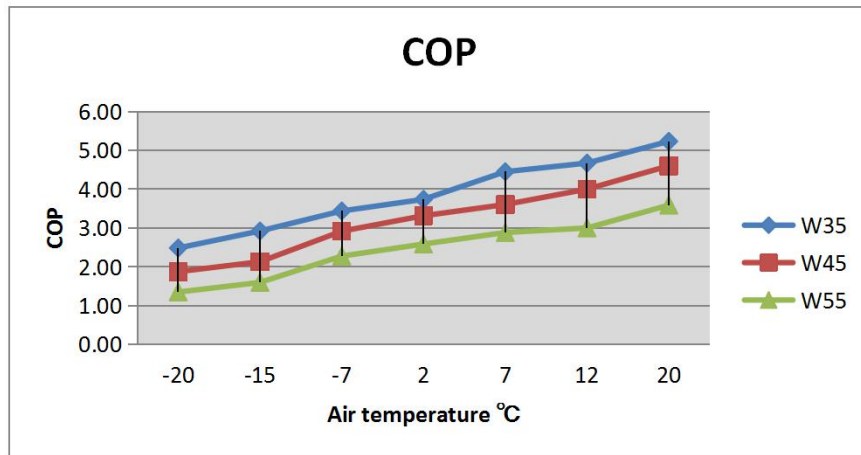
Unit Name			CGK-080V2			CGK-100V2		
Model			CGK-080V2			CGK-100V2		
Power Supply / Refrigerant		V/Hz/Ph	380-420/50/3 - R410A			380-420/50/3 - R410A		
Max. Heating Capacity (1)		kW	26			32		
C.O.P (1)		W/W	4.52			4.42		
Heating Capacity Min./Max.(1)		kW	11.96 / 26			14.72 / 32		
Heating Power Input Min./Max.(1)		W	2117 / 5752			2664 / 7240		
C.O.P Min./Max.(1)		W/W	4.52 / 5.65			4.42 / 5.53		
Max. Heating Capacity(2)		kW	24.4			30.1		
C.O.P (2)		W/W	3.62			3.43		
Heating Capacity Min./Max.(2)		kW	11.24 / 24.44			13.84 / 30.08		
Heating power input Min./Max.(2)		W	2618 / 6759			3295 / 8507		
C.O.P Min./Max.(2)		W/W	3.62 / 4.29			3.54 / 4.20		
Max. Cooling Capacity(3)		kW	23.2			28.6		
E.E.R (3)		W/W	3.51			3.32		
Cooling Capacity Min./Max.(3)		kW	10.68 / 23.22			13.14 / 28.58		
Cooling Power Input Min./Max.(3)		W	2538 / 7736			3194 / 9737		
E.E.R Min./Max.(3)		W/W	3.00 / 4.21			2.93 / 4.12		
Max. Cooling Capacity(4)		kW	18.3			22.6		
E.E.R(4)		W/W	2.63			2.49		
Cooling Capacity Min./Max.(4)		kW	8.43 / 18.33			10.38 / 22.56		
Cooling Power Input Min./Max.(4)		W	2277 / 7185			2866 / 9043		
E.E.R Min./Max.(4)		W/W	2.55 / 3.70			2.49 / 3.62		
Rated Current		A	12.1			15.3		
Max Power Input		kW	8.3			10.5		
Max Current		A	17.60			22.15		
Compressor	Type - Quantity/System		Twin Rotary - 1			Twin Rotary - 1		
Fan	Quantity		2			1		
	Airflow	m3/h	7500			10000		
	Rated power	W	250			500		
Water Side Heat Exchanger	Type		Plate Heat Exchanger			Plate Heat Exchanger		
	Water Pressure Drop	kPa	23			25		
	Piping Connection	Inch	G1"			G1 1/4"		
Allowable Water Flow	Min./Rated./Max.	L/S	0.78	1.24	2.07	0.96	1.53	2.55
Noise Level		dB(A)	62			63		
Net Dimension(L×D×H)		mm	1110*475*1455			950*900*1950		
Packing Dimension(L×D×H)		mm	1220*540*1580			1020*960*2125		
Net Weight		Kg	150			260		
Gross Weight		Kg	170			280		
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;								

## Standard Materials

Name	Description	Picture	Name	Description	Picture	Name	Description	Picture
Condenser (copper)	Plate Heat Exchanger		Evaporator	Hydropilic Aluminium foil and internal thread copper pipe heat exchanger		High Pressure Sensor	CAREL 0-4.5MPa	
Compressor	Panasonic Rotary Compressor		Expansion Valve	CAREL Electronic expansion valve		Low Pressure Sensor	CAREL 0-3.45MPa	
4-way valve	SANHUA		AC Contactor	Schneider		Package	corrugated board case / plywood case	
Controller	CAREL Controller		DC Fan	WOLONG DC Fan				

## Heating Capacity at Different Conditions

Model	CGK-080V2			CGK-100V2		
Air temp °C	Heating capacity (KW)			Heating capacity (KW)		
-20	7.08	6.94	2.08	14.78	12.53	3.76
-15	12.57	11.97	6.23	19.71	16.70	10.02
-7	17.20	16.86	15.35	24.23	23.52	21.41
2	23.16	22.48	19.79	28.50	27.67	26.84
7	26.00	24.44	22.73	32.00	30.08	28.58
12	27.30	25.66	23.87	33.60	31.58	30.00
20	27.85	26.18	24.34	34.27	32.22	30.60
Hot water temp °C	30/35	40/45	50/55	30/35	40/45	50/55



Air temp °C	COP kW/kW		
-20	2.48	1.87	1.35
-15	2.92	2.13	1.60
-7	3.44	2.92	2.28
2	3.74	3.32	2.59
7	4.45	3.60	2.88
12	4.67	4.00	3.00
20	5.23	4.60	3.59
Hot water temp °C	35	45	55