



FOCUS ON HOT WATER HOUSE HEATING AND COOLING



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CGK20230501

A Professional Heat Pump Manufacturer Since 1999

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ERP A+++ R32 Cold Climate Full Inverter Heat Pumps
R410A Monoblock DC Inverter Air Source Heat Pumps
R410A Split EVI DC Inverter Air Source Heat Pumps
R32 DC Inverter Swimming Pool Heat Pumps
Domestic Air to Water Heat Pumps
Top Discharge Commercial Air to Water Heat Pumps
SPRSUN Heat Pump Family

Our Service & Support

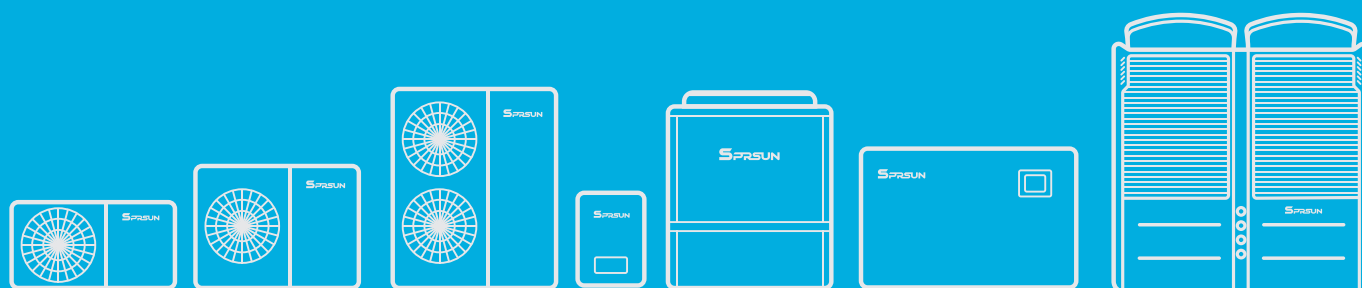
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About SPRSUN



Founded in 1999 as a professional heat pump manufacturer, Guangzhou SPRSUN New Energy Technology Development Co., Ltd. has been in the heat pump industry for over 24 years.

Our Products

Focusing on hot water, heating and cooling, SPRSUN is built up to meet customers' special energy saving needs with advanced technology support from Germany while ISO9001 and ISO14001 have been obtained. Its main products include monoblock air source DC inverter heat pumps, split air source EVI DC inverter heat pumps, swimming pool heat pumps, air source heat pump water heaters and so on. They are produced based on EN14511 standard with CE, CB, KEYMARK, SAA, CCC and ERP certificates.

Our Service

With dedicated professional members in engineering team, production team, management team and marketing team, we are willing to cooperate with you from the very beginning to the end. Our service covers from project consultation, product design, sampling, production to quality control, logistics, shipping, technical support, after sales service and other important functions.

Our Markets

Over the years, excellent products based on leading technology and professional service have earned SPRSUN its reputation as the world's leading heat pump manufacturing and supplying company. Our products are popular all over the world, such as Germany, Sweden, Serbia, Turkey, Czech, Russia, Vietnam, Australia, South Africa and so on.



Milestone

Quality is a word proved by time! We are proud of who we are and what we make!

1999

Founded, focus on solar water heater.

2005

First commercial air-water heat pump developed, in Oct, ISO 9001, ISO 14001 & CE obtained.

2011

Manufacturing base built in Development Zone.

2013

Honored as TOP 10 brand for heat pumps in China; EVI heat pumps for -25°C cold climate attract many customers.

2016

Enlarge the manufacturing base 3 times bigger.

2020

SPRSUN DC inverter heat pumps enhanced to obtain the A+++ ERP certificate.

2022

The R290 DC inverter heat pump and heat pump kit developed; Keymark certificate obtained; The second factory launched.

1999

2003

2005

2006

2011

2012

2013

2014

2016

2018

2020

2021

2022

2023

2003

In July, involved in first central hot water system.

2006

In June, first mass order for commercial air-water heat pump exported to Europe.

2012

3C certificate & EN14511 test report obtained from TUV.

2014

High-tech company awarded and honored again as TOP 10 brand for heat pumps in China.

2018

Wi-fi control function developed for SPRSUN air source heat pumps.

2021

R32 EVI DC inverter heat pumps developed.

2023

The overseas team expanded and moved to a bigger office. R290 DC inverter heat pump released.



Certificates

Production Lines

Multiple production lines, advanced equipment, experienced workers and standard production procedures provide us with strong production capacity (over 25000 pieces heat pumps per month).



CE Poska



ISO 19001



ISO 14001



RoHS Certificate



KEYMARK Test Report



ERP A+++ TUV Test Report



MCS Certificate



CCC Certificate



Noise Test Report



R&D Center

Advanced Heat Pump Performance Testing Laboratory

Able to simulate the operating performance of heat pump units at ambient temperature from -30°C to 50°C.

Test heat pumps of input power ranging from 0.8kw to 80kw, as well as frequency of 50Hz/60Hz.

Ratified by TÜV SÜD, which confirms that the lab can directly issue test reports approved by EU.



Advanced Heat Pump Performance Testing Laboratory

- Test the performance of newly developed products.
- Inspect, refine and adjust new products before their delivery.
- Provide support for any questions concerning the products and installation.
- Improve our products continually to meet the needs of our customers.
- Assist in getting certificates such as CE and SAA for the products.
- Provide training and materials on products, installation & maintenance.



Workmanship

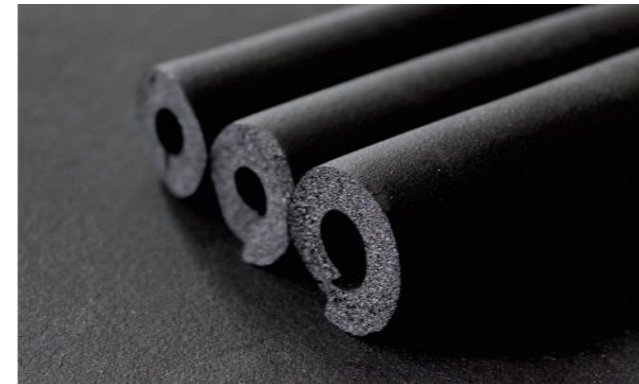
We Care Every Detail on What You Need.



Super Low Noise with Fitted Clothes for Compressor and Strong Pads



Anti-corrosion with Aluminium Edging



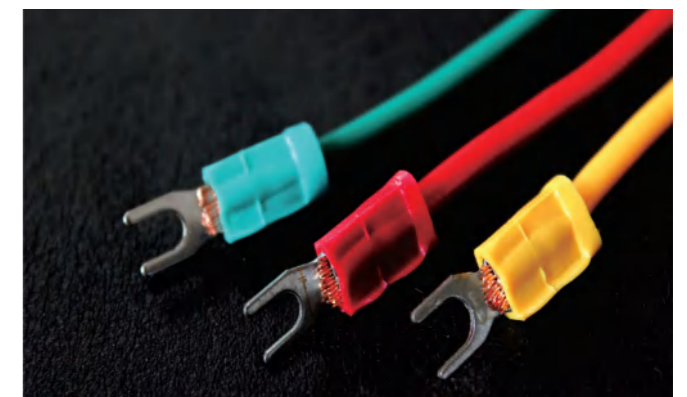
Prevent Energy Loss with 30mm Thickness for Insulation



Excellent Welding Guarantee No Leakage with Four-Way Valve Protection



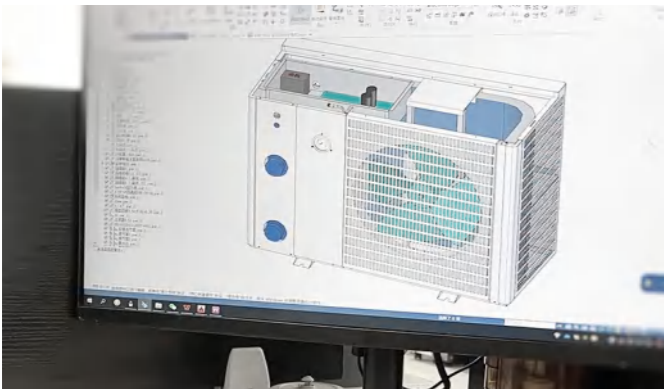
User-friendly Design Using Non-slip Screws



Reliable Connection by Adopting Automatic Stamping Machine

Quality Control

Ensure Our Heat Pumps Are 100% Tested Before Delivery!



System Design QC
System Design, Component Design, Outer Covering Design, Piping Design, Wiring Design.

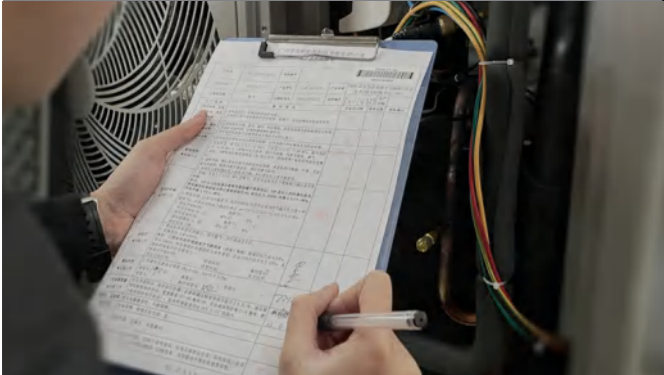


Incoming Material QC
Supplier Assessment, Material Quality Checking, Heat Exchanger Leaking Check, Electric Unit Check.



Assembly System QC
Welding, Leakage Check, Vacuum, Filling Refrigerant, Sticking Pipe Insulation, Sticking Silencing Surface, Control System Connecting.

Piping Grafts QC
Bend Pipes, Drill Holes on Pipe, Narrow and Expand Holes, Smooth Polished, Wash and Clean, Welding.



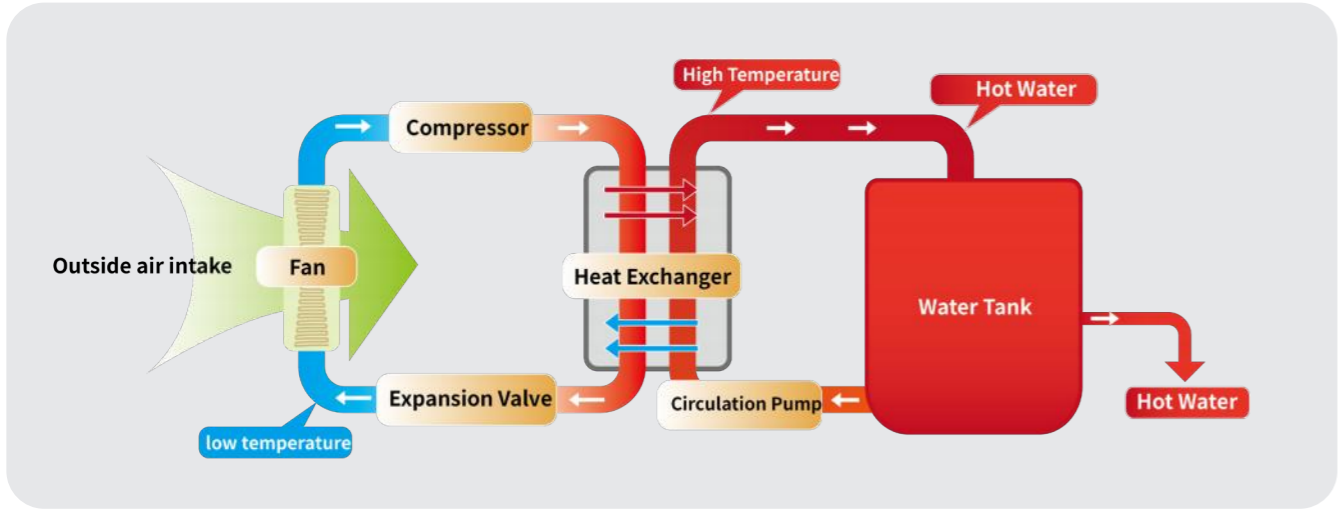
Finished Product QC
Spot-checking, Performance Testing, Washing and Cleaning, Drying Inside, Sticking Labels, Packaging.

Global Partners







About Air Source Technology

Working Principle



Based on reverse Carnot cycle, the refrigerant in the evaporator absorbs a large amount of energy from the air, which is then compressed into high temperature and high pressure gas by the compressor and finally exchanging heat through the heat exchanger, so as to provide house heating and hot water.

Core Advantages

-  Environment-friendly:
No combustion or exhaust emission.
-  Save more than 75% energy compared with electric heating.
-  Separation of water and electricity,
no hidden danger.
-  All-weather hot water supply, heating in winter and cooling in summer.



About DC Inverter Technology

Heating in Low Temperature



With the use of DC inverter compressor and DC inverter controller, it can automatically increase the operating frequency according to the ambient temperature and greatly improve the heating capacity in low temperature environment.

Wide Voltage Operation



Start at low frequency and low current, without impact on power grid and electricity meter, reducing the interference to other indoor electrical appliances. 150V-260V (1ph) or 330V-450V (3ph) wide voltage operation is applicable to solve safety problems caused by voltage instability.

Super Low Noise



Equipped with the DC inverter brushless fans and designed based on aerodynamics, SPRSUN DC inverter heat pumps adopt multiple noise reduction and sound insulation measures so that noise is reduced to a low level.

High Heating Efficiency

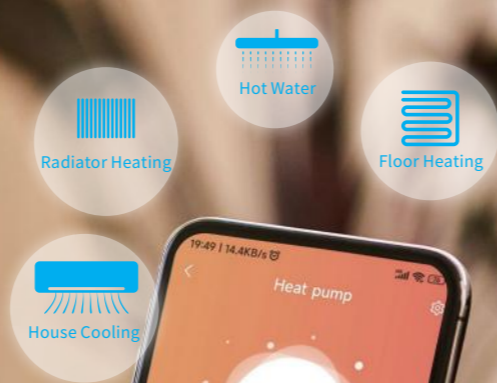


The unit can operate at high frequency to heat water at a faster speed. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain temperature.

CGK Online Intelligent Remote Control System

Working Principle

SPRSUN's self-developed CGK online intelligent remote 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.



Multiple Function Five Working Modes

Five Working Modes

Central Hot Water

Central Hot Water: Constant Temperature, Sufficient Water Volume, 24-hour Instant Supply.

Central Cooling

Water Cooled Air Conditioning, Soft Air Supply, Comfortable for Human Body.

Whole House Heating

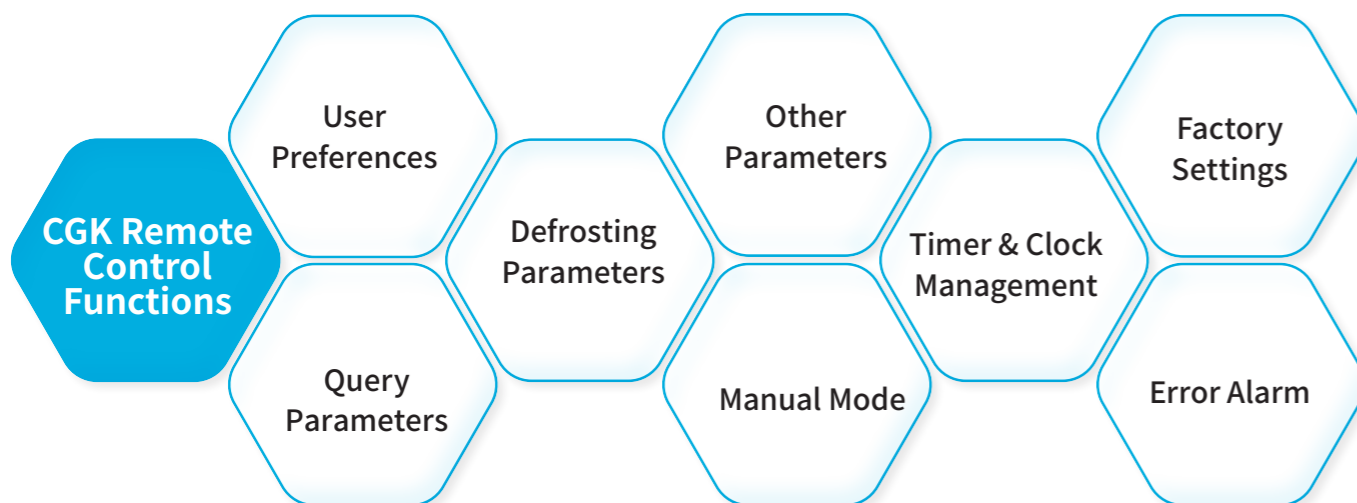
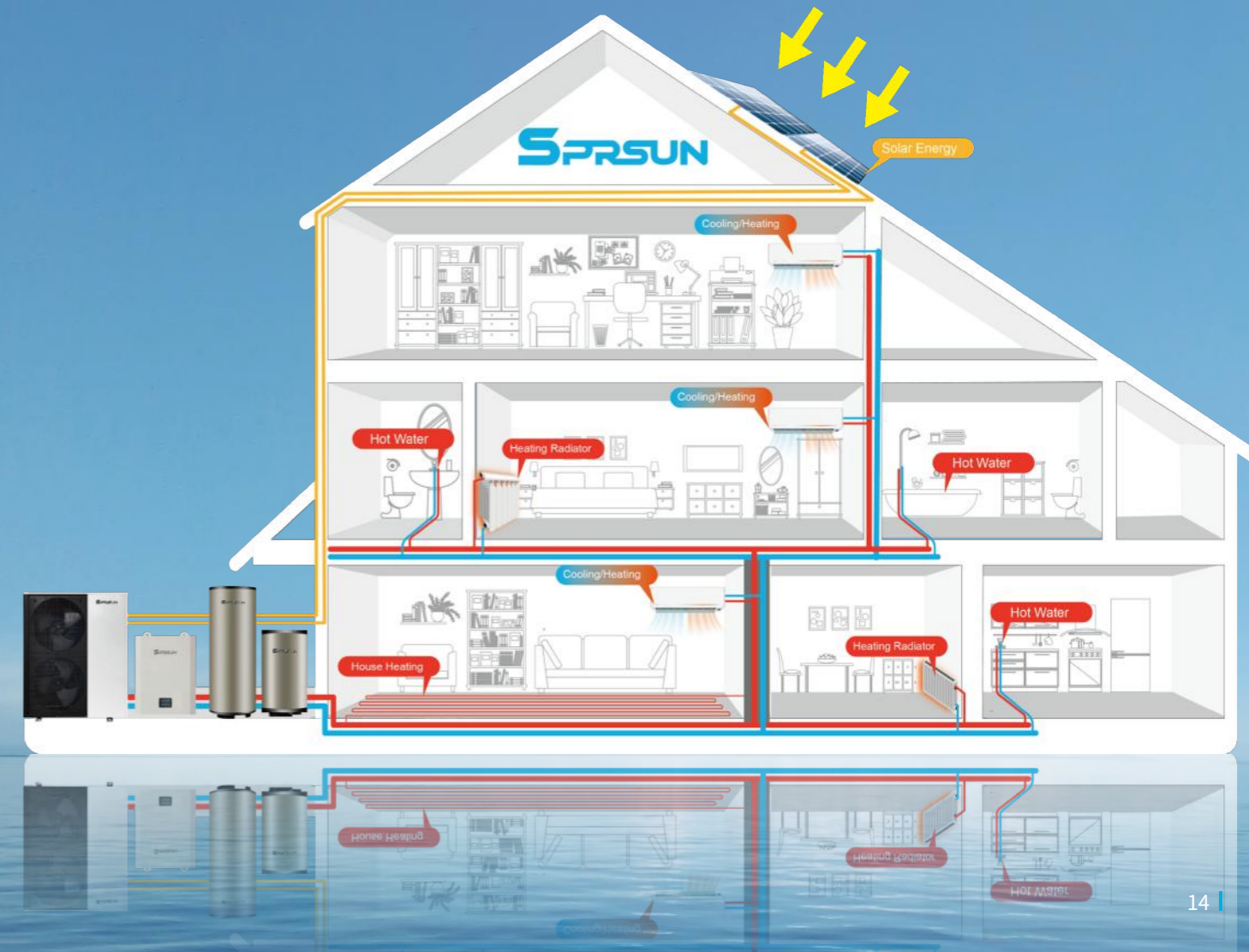
Water Cycled Floor Heating, Well-distributed Heat Dissipation, Healthy & Energy Saving.

Hot Water + House Cooling

Meet the Requirements of Both Central Hot Water and Air Conditioning.

Hot Water + House Heating

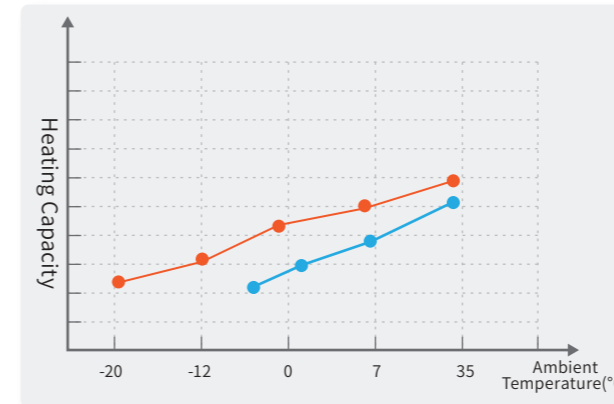
Meet the Requirements of Both Central Hot Water and Room Heating.



Advantages of SPRSUN EVI DC Inverter Air Source Heat Pumps



EVI Low Temp Heating

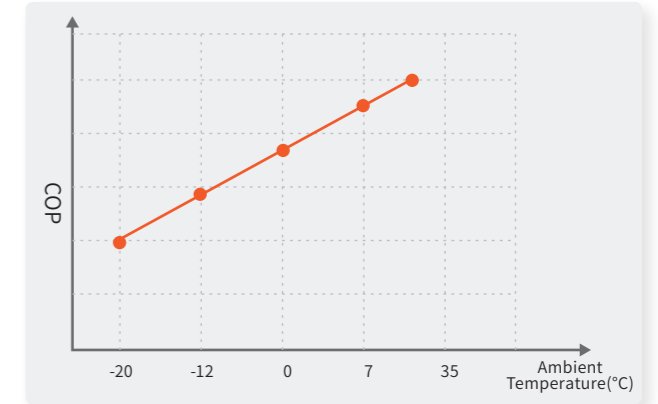


SPRSUN EVI DC Inverter Heat Pump
Regular Heat Pump

SPRSUN EVI DC Inverter Heat Pumps:

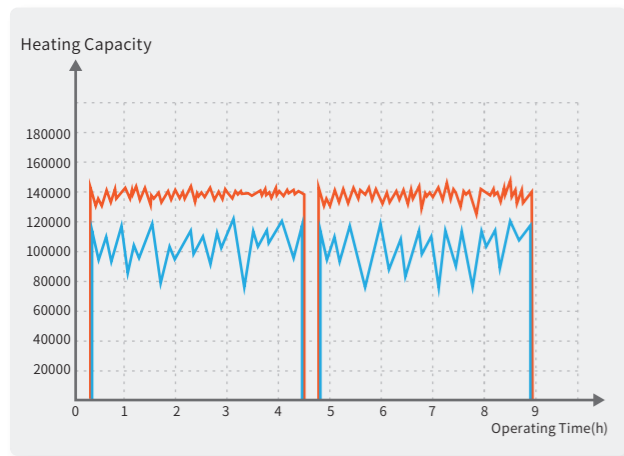
SPRSUN applies Panasonic EVI rotary compressor, which greatly improves the heating capacity of the unit at low temperature. In cold climate, the heating capacity is increased by 30% compared with traditional heat pumps.

Low Temperature Energy Efficiency Heating Capacity



When the ambient temperature is -20°C, the COP is higher than 2.0.

Comparison of Heating Capacity



SPRSUN EVI DC Inverter Heat Pump
Regular Heat Pump

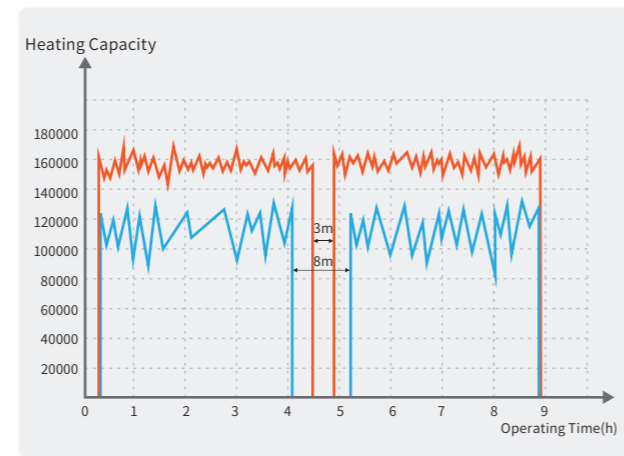
SPRSUN EVI DC Inverter Heat Pumps:

Strong heating, stable heating performance, over 38% heating capacity more than ordinary air source heat pump.

Regular Heat Pumps:

Short heating time and weak heating stability.

Comparison of Defrosting Capacity



SPRSUN EVI DC Inverter Heat Pump
Regular Heat Pump

SPRSUN EVI DC Inverter Heat Pumps:

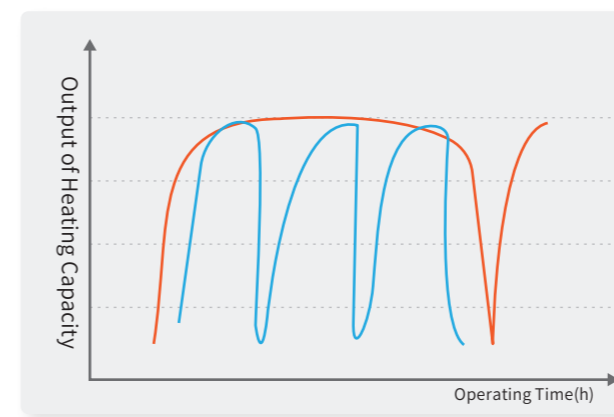
Intelligent and efficient defrosting, defrosting efficiency being over 2.2 times of that of regular heat pumps, long heating time and short defrosting time.

Regular Heat Pumps:

Low heating capacity, long defrosting time.

Comparison of Heating Capacity

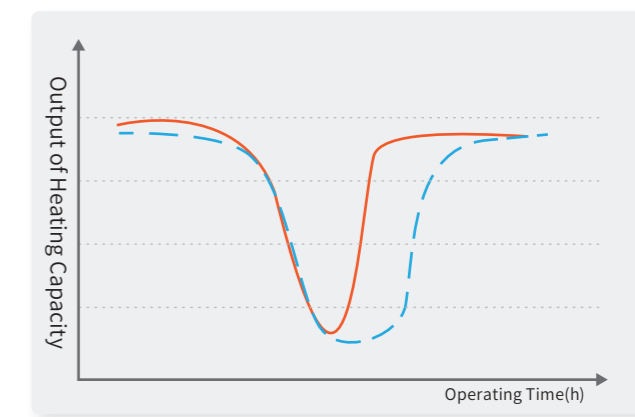
SPRSUN independently developed its own PID intelligent defrosting control mode. The defrosting time does not exceed 20% of the operation cycle. By detecting the ambient temperature, evaporator coil temperature and compressor return gas temperature, the PID intelligent defrosting control mode calculates the temperature difference and the accumulated working time of the compressor to judge the frosting conditions of the evaporator. When the defrosting conditions are met, the defrosting mode will be automatically entered to prevent the unit from defrosting confusion and energy consumption, which will improve the reliability and economy of the whole unit.



SPRSUN Smart Defrosting
Traditional Defrosting

Cycle Comparison:

SPRSUN Smart Defrosting vs. Traditional Defrosting



SPRSUN Smart Defrosting
Traditional Defrosting

Speed Comparison:

SPRSUN Smart Defrosting vs. Traditional Defrosting

SPRSUN R290 DC Inverter Air Source Heat Pumps



Features



Lower GWP

The new SPRSUN DC Inverter Air Source Heat Pumps specially adopt R290 refrigerant with global warming potential (GWP) as low as 3.3. Compared with R290, R410A refrigerant actually has a high GWP value and high greenhouse gas effect. As an environment-friendly refrigerant, R290 has many advantages, making it very suitable for the application of low-temperature heat pump heating in the cold areas.



Higher Efficiency

The Grundfos DC Inverter Water Pump with water flow feedback is safe and reliable, with long life and low noise. The use of high-efficiency frequency conversion water pump can automatically adjust the water flow under partial load through variable-frequency self-adjustment. It can operate efficiently and reduce the energy consumption of water pump operation, so as to achieve significant energy saving for the heat pump system.



Better Energy Consumption Monitoring

With maximum COP 5.95, our ERP A+++ R32 EVI DC inverter heat pumps charge and recirculate more efficiently than DC inverter heat pumps of other refrigerants. They consume less energy, and can therefore help families reduce energy bills.



Max. Outlet Water Temperature Reaches 70° C

By combining eco-friendly R290 natural refrigerant and inverter heating technology, the new heat pump is able to operate from -25°C to 45°C, maintaining high COP and reliable stability. More importantly, its max. outlet water temperature reaches 70°C without electric heating.



CGK030V4P	CGK040V4P	CGK050V4P	CGK060V4P	CGK-030V4P	CGK-040V4P	CGK-050V4P	CGK-060V4P
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Functions

Multi-functions: hot water, house heating & cooling.

Intelligent humanized controller, which collect opinions to optimize the operation interface.

The controller has a built-in linkage switch interface, which can be seamlessly connected to the temperature controller.

The unit has built-in solar auxiliary heating, which can be seamlessly connected with solar auxiliary heating.

The main interface can quickly switch the fan mode (normal, economic, night, silent).

The panel structure is revised to support 86 box installation; The 485-communication port of the panel supports communication with the temperature controller.

Refrigerant: R290.

Max. heating capacity: 9KW-18KW.

Max. cooling capacity: 8.2KW-16.4KW.

Key Components

Compressor
Panasonic Rotary Compressor

Condenser
Plate Heat Exchanger

Expansion valve
CAREL Electronic Expansion valve

4-way valve
SANHUA

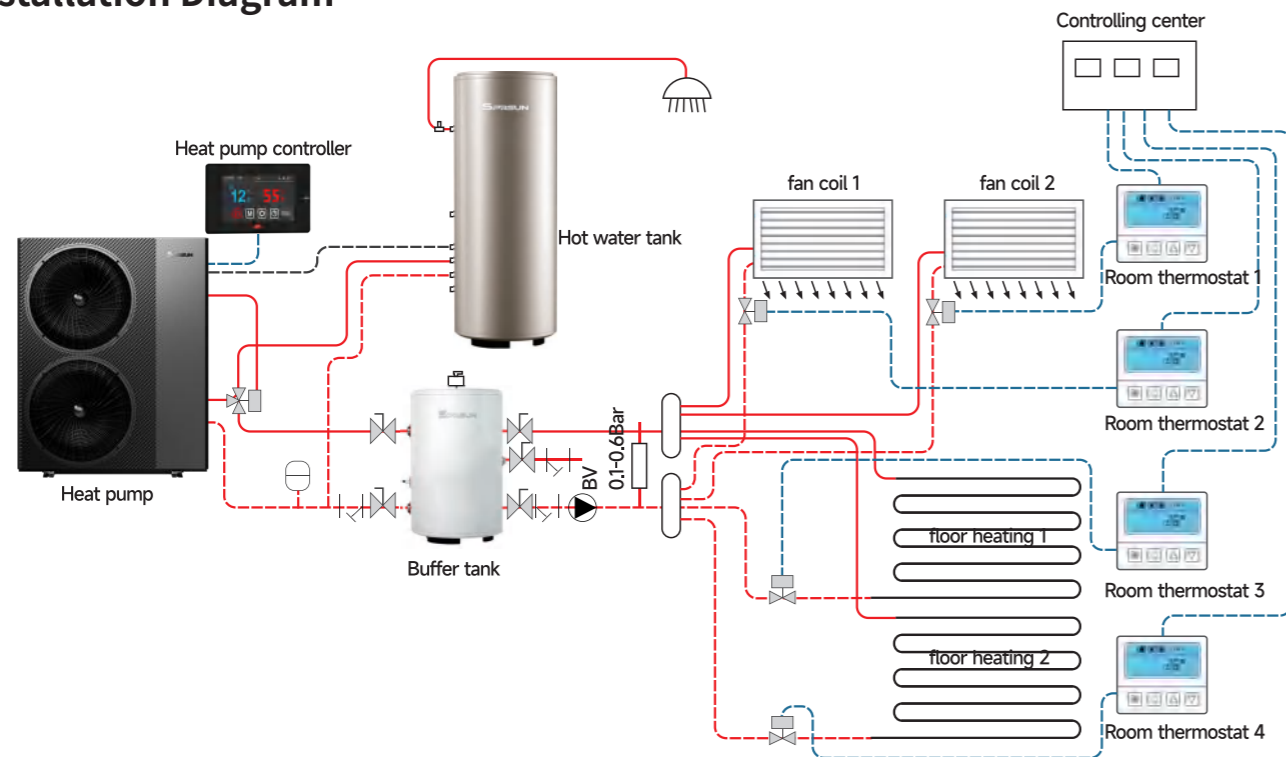
Water Pump
Grundfos

Controller
Touch screen Controller

Specifications

Model		CGK030V4P	CGK040V4P	CGK050V4P	CGK060V4P	CGK-030V4P	CGK-040V4P	CGK-050V4P	CGK-060V4P	
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R290				380-420/50/3 - R290				
Max. Heating Capacity (A7°C /W35°C)	kW	9	11	15	18	9	11	15	18	
C.O.P (A7°C /W35°C)	W/W	4.41	4.43	4.45	4.46	4.42	4.42	4.41	4.46	
Heating Capacity Min./Max.(A7°C /W35°C)	kW	4.14 / 9.00	5.06 / 11.00	6.90 / 15.00	8.28 / 18.00	4.14 / 9.00	5.06 / 11.00	6.90 / 15.00	8.28 / 18.00	
Heating Power Input Min./Max.(A7°C /W35°C)	W	782 / 2041	952 / 2483	1292 / 3371	1547 / 4036	781 / 2036	954 / 2489	1304 / 3401	1547 / 4036	
C.O.P Min./Max.(A7°C /W35°C)	W/W	4.41 / 5.29	4.43 / 5.32	4.45 / 5.34	4.46 / 5.35	4.42 / 5.30	4.42 / 5.30	4.41 / 5.29	4.46 / 5.35	
Max. Heating Capacity(A7°C /W45°C)	kW	8.6	10.6	14.4	17.3	8.6	10.6	14.4	17.3	
C.O.P (A7°C /W45°C)	W/W	3.53	3.54	3.56	3.57	3.54	3.54	3.53	3.57	
Heating Capacity Min./Max.(A7°C /W45°C)	kW	3.97 / 8.64	4.86 / 10.56	6.62 / 14.40	7.95 / 17.28	3.97 / 8.64	4.86 / 10.56	6.62 / 14.40	7.95 / 17.28	
Heating power input Min./Max.(A7°C /W45°C)	W	988 / 2449	1202 / 2980	1632 / 4045	1954 / 4843	986 / 2443	1205 / 2986	1647 / 4082	1954 / 4843	
C.O.P Min./Max.(A7°C /W45°C)	W/W	3.53 / 4.02	3.54 / 4.04	3.56 / 4.06	3.57 / 4.07	3.54 / 4.03	3.54 / 4.03	3.53 / 4.02	3.57 / 4.07	
Max. Cooling Capacity(A35°C /W18°C)	kW	8.2	10.0	13.7	16.4	8.2	10.0	13.7	16.4	
E.E.R (A35°C /W18°C)	W/W	3.42	3.44	3.45	3.46	3.43	3.43	3.42	3.46	
Cooling Capacity Min./Max.(A35°C /W18°C)	kW	3.78 / 8.21	4.61 / 10.03	6.29 / 13.68	7.55 / 16.42	3.78 / 8.21	4.61 / 10.03	6.29 / 13.68	7.55 / 16.42	
Cooling Power Input Min./Max.(A35°C /W18°C)	W	958 / 2398	1166 / 2918	1582 / 3962	1894 / 4743	956 / 2393	1168 / 2925	1597 / 3997	1894 / 4743	
E.E.R Min./Max.(A35°C /W18°C)	W/W	3.42 / 3.94	3.44 / 3.96	3.45 / 3.98	3.46 / 3.99	3.43 / 3.95	3.43 / 3.95	3.42 / 3.94	3.46 / 3.99	
Max. Cooling Capacity(A35°C /W7°C)	kW	5.8	7.1	9.6	11.6	5.8	7.1	9.6	11.6	
E.E.R(A35°C /W7°C)	W/W	2.74	2.75	2.76	2.77	2.74	2.74	2.74	2.77	
Cooling Capacity Min./Max.(A35°C /W7°C)	kW	2.66 / 5.79	3.25 / 7.08	4.44 / 9.65	5.33 / 11.58	2.66 / 5.79	3.25 / 7.08	4.44 / 9.65	5.33 / 11.58	
Cooling Power Input Min./Max.(A35°C /W7°C)	W	768 / 2114	934 / 2573	1268 / 3492	1518 / 4181	766 / 2110	936 / 2578	1280 / 3524	1518 / 4181	
E.E.R Min./Max.(A35°C /W7°C)	W/W	2.74 / 3.47	2.75 / 3.48	2.76 / 3.50	2.77 / 3.51	2.74 / 3.48	2.74 / 3.48	2.74 / 3.47	2.77 / 3.51	
Max Power Input	kW	3.06	3.72	5.06	6.05	3.05	3.73	5.10	6.05	
Max Current	A	14.65	17.82	24.19	28.97	6.45	7.88	10.77	12.78	
Wire diameter	mm ²	4.0	6.0	6.0	6.0	2.5	2.5	4.0	4.0	
Fuses or circuit breakers	A	25A	32A	40A	40A	13A	16A	20A	20A	
Compressor	Type - Quantity/System	Twin Rotary - 1								
Fan	Quantity	1	1	2	2	1	1	2	2	
	Airflow	m ³ /h	3000	3500	5000	5500	3000	3500	5000	5500
	Rated power	W	100	120	200	210	100	120	200	210
Water Side Heat Exchanger	Type	Plate Heat Exchanger								
	Water Pressure Drop	kPa	20	21	23	25	20	21	23	25
	Piping Connection	Inch	G1"							
Pump model	/	UPM4XLK 25-90 130		UPML GEO 25-105 130		UPM4XLK 25-90 130		UPML GEO 25-105 130		
Max Water Pump Head	m	9	10.5	10.5	10.5	9	10.5	10.5	10.5	
Allowable Water Flow	Min./Rated./Max.	L/S	0.27 0.43 0.72	0.33 0.53 0.88	0.45 0.72 1.19	0.54 0.86 1.43	0.27 0.43 0.72	0.33 0.53 0.88	0.45 0.72 1.19	0.54 0.86 1.43
Noise Level	dB(A)	59	60	61	62	59	60	61	62	
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	
Packing Dimension(L×D×H)	mm	1165*490*960	1165*490*1100	1165*490*1520	1165*490*1520	1165*490*960	1165*490*1100	1165*490*1520	1165*490*1520	
Packing Dimension(L×D×H)	mm	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510	1220*540*970	1200*540*1120	1200*540*1510	1200*540*1510	
Net Weight	kg	88	105	124	124	88	105	124	124	
Gross Weight	kg	105	120	150	150	105	120	150	150	
Gross Weight	kg	116	126	161	161	116	126	161	161	
Operation Well distributed(°C)		-25~45								
Operation water Temp.(°C)		10~70(DHW)								
Operation water Temp.(°C)		10~70(Heating)								
Operation water Temp.(°C)		12~30(Cooling)								
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 ;										

Installation Diagram



R32 Monoblock EVI DC Inverter Air Source Heat Pumps



Features



Lower GWP

The new refrigerant gas R32 helps our DC inverter heat pumps operate more cleanly and effectively, which has less harmful effects on the atmosphere with lower carbon emissions and zero ozone depleting potential.



Smarter Technology

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. Our R32 EVI DC inverter heat pumps are also featured with more intelligent protections.



Increased Efficiency

With maximum COP 5.95, our ERP A+++ R32 EVI DC inverter heat pumps charge and recirculate more efficiently than DC inverter heat pumps of other refrigerants. They consume less energy, and can therefore help families reduce energy bills.



Guaranteed Safety

The refrigerant R32 is considered to be environment friendly, but improper handling and storage might lead to potential safety issues. All of this can be avoid by using SPRSUN R32 DC inverter heat pumps, since they are designed with anti-explosion measures to guarantee the safety.



Reduced Noise

In addition to brushless DC inverter fans, SPRSUN R32 DC inverter heat pumps adopt reinforced sound reduction measures such as the dual shock absorption by Panasonic Compressor. The sound levels start as low as 42 dBA, making itself the quietest system in our DC inverter lineup.



CGK025V3L CGK030V3L CGK040V3L CGK050V3L CGK060V3L CGK-025V3L CGK-030V3L CGK-040V3L CGK-050V3L CGK-060V3L

Functions

Multi-functions: hot water, house heating & cooling.

Ambient temperature: -25-45°C

High efficiency with ERP A+++ energy level.

Super low noise with brushless DC inverter fans & the compressor dual shock absorption.

Smart control with CAREL controller, WIFI online monitoring & intelligent protections.

Guaranteed safety with explosion proof measures.

Anti-freezing function & smart defrosting.

Power supply: 220V~240V/50Hz/1ph or 380V-420V/50Hz/3ph.

Refrigerant: R32.

Max. heating capacity: 9.5KW-22KW.

Max. cooling capacity: 8.7KW-20.1KW.

Key Components

Compressor

Panasonic Rotary Compressor



DC Fan

WOLONG Brushless DC Fan



Expansion valve

CAREL Electronic Expansion valve



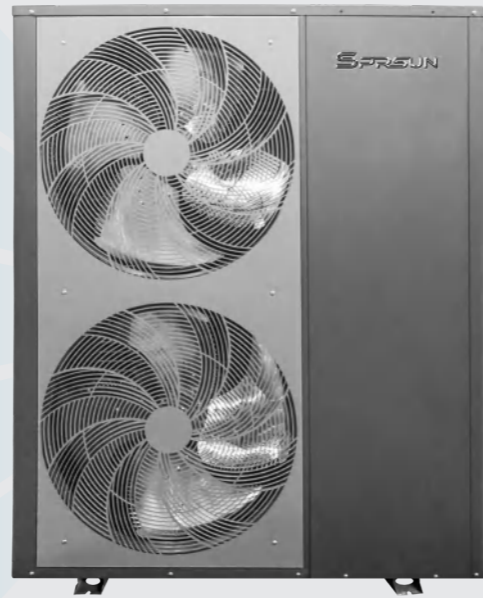
Pressure Sensor

CAREL Pressure Sensor

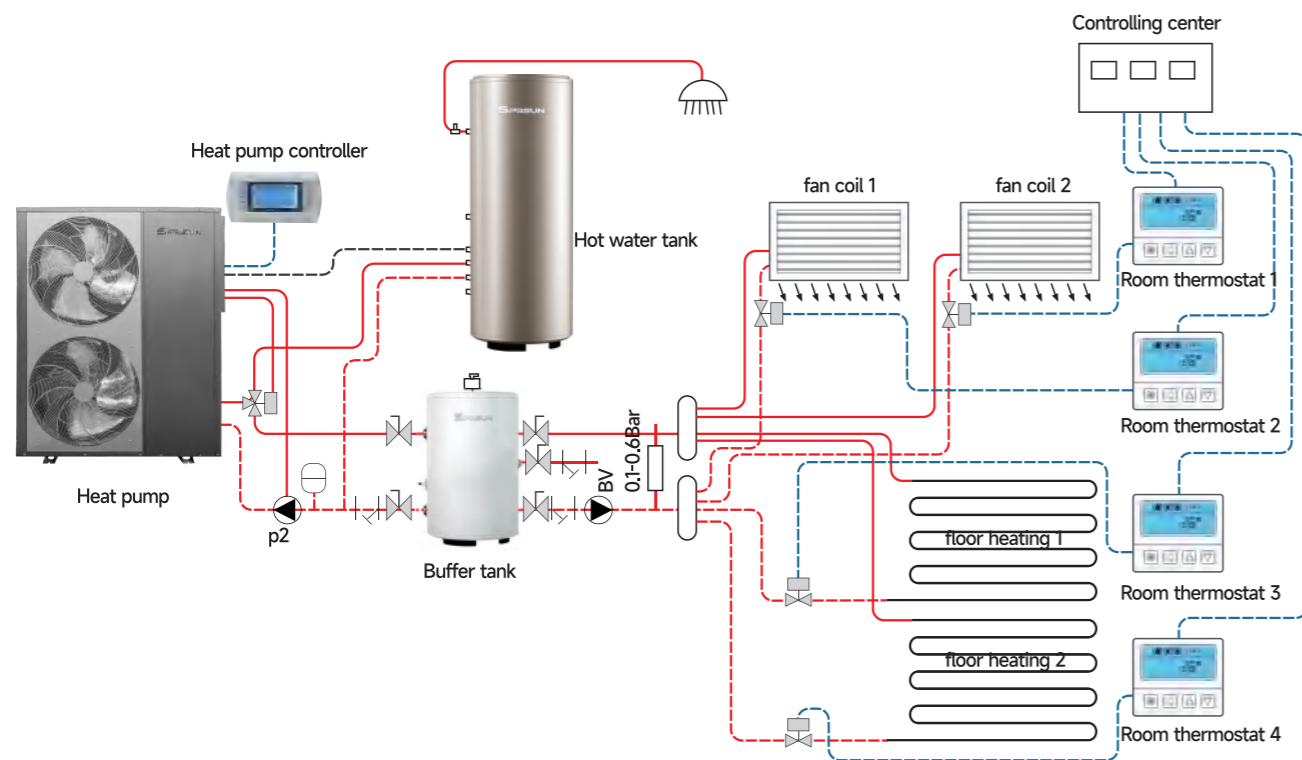


Controller

CAREL Controller



Installation Diagram

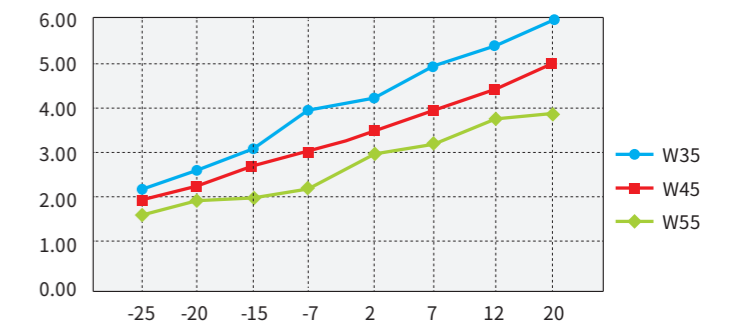


Specifications

Model		CGK025V3L	CGK030V3L	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	9.5	12	16	20	22	9.5	12	16	20	22	
C.O.P (1)	W/W	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	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	763 /2074	992 / 2697	1250 /3397	1549 /4211	1752 /4762	763 /2074	992 / 2697	1250 /3397	1546 /4202	1741 /4731	
C.O.P Min./Max.(1)	W/W	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	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	3.71	3.60	3.82	3.85	3.70	3.71	3.60	3.82	3.81	3.60	
Heating Capacity Min./Max.(2)	kW	4.20 /9.12	5.30/11.52	7.07/15.36	8.83/19.20	9.72/21.12	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.(2)	W	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	3.66/4.35	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	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	3.60	3.50	3.70	3.73	3.59	3.60	3.50	3.70	3.69	3.50	
Cooling Capacity Min./Max.(3)	kW	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	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	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	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	2.59	2.62	2.66	2.80	2.69	2.59	2.62	2.66	2.77	2.62	
Cooling Capacity Min./Max.(4)	kW	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	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	2.58/3.75	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	9.9	12.9	16.3	20.1	22.8	4.4	5.7	7.2	8.9	10.0	
Max Power Input	kW	3.0	3.9	4.9	6.1	6.9	3.0	3.9	4.9	6.1	6.9	
Max Current	A	14.4	18.7	23.6	29.2	33.0	6.3	8.3	10.4	12.9	14.5	
Compressor	Type - Quantity /System	Twin Rotary - 1										
Fan	Quantity	1		2			1			2		
	Airflow	m3/h	2500	3000	3500	5000	5500	2500	3000	3500	5000	5500
	Rated power	W	80	100	120	200	210	80	100	120	200	210
Water Side Heat Exchanger	Type	Plate Heat Exchanger										
	Water Pressure Drop	kPa	18	20	21	23	25	18	20	21	23	25
	Piping Connection	Inch	G1"									
Allowable Water Flow	Min.	0.28		0.36			0.48			0.60		0.66
	Rated.	L/S	0.45	0.57	0.76	0.96	1.05	0.45	0.57	0.76	0.96	1.05
	Max.		0.75	0.96	1.27	1.59	1.75	0.76	0.96	1.27	1.59	1.75
Noise Level	dB(A)	56	59	60	61	62	56	59	60	61	62	
Net Dimension(L×D×H)	mm	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	
Packing Dimension(L×D×H)	mm	1200*540*970	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510	1200*540*970	1220*540*970	1200*540*1120	1200*540*1510	1200*540*1510	
Net Weight	Kg	80	88	98	124	124	80	88	98	124	124	
Gross Weight	Kg	108	116	126	161	161	108	116	126	161	161	
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 ;												

COP

Air temp °C	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 °C	35	45	55



ERP A+++ R32 Cold Climate Full Inverter Heat Pumps



Features



5-inch Colorful Touch Screen

The 5-inch colorful touch screen allows you to control the temperature and set the system modes easily. With modern and clear interface, it can quickly check error codes, making sure that you are able to change or program your room temperature at anytime.



One Click Remote Software Upgrade

If there's a necessary software update, the system will keep you informed so that you can upgrade the controller software with one click anytime, anywhere as long as it connects to the internet. The update can only take several minutes depending on the speed of the internet connection.



ERP A+++ Performance

As highly energy-efficient as the CAREL controller series, the new R32 Full Inverter Heat Pumps also can achieve ERP A+++ energy level. They have a maximum heating capacity from 9.5KW to 22KW, with a maximum COP of 5.89.



R32 Refrigerant

The R32 refrigerant is more environmentally friendly compared to other traditional refrigerants. Its ability to enable an inverter heat pump to recharge and recycle more effectively than some other refrigerants means that the unit can run at much higher efficiencies.



Intelligent Defrosting

SPRSUN independently developed its own PID intelligent defrosting control mode. When the defrosting conditions are met, the defrosting mode will be automatically entered to prevent the unit from defrosting confusion and energy consumption, which will improve the reliability and economy of the whole unit.



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

Functions

Multi-functions: hot water, house heating & cooling.

Ambient temperature: -30-45.

High efficiency with ERP A+++ energy level.

Panasonic rotary compressor and NIDECC DC inverter brushless fans enable the units to run quietly.

Equipped with highly integrated control functions, can be operated via a remote APP.

Sterilization is applied to make the heat pump more comfortable.

A variety of automatic protection functions are equipped in the unit to identify and adjust errors automatically, so that the unit works more stably and durably.

Power supply: 220V~240V/50Hz/1ph or 380V-420V/50Hz/3ph.

Refrigerant: R32.

Max. heating capacity: 6KW-28KW.

Max. cooling capacity: 5.5KW-25.5KW.

Key Components

Compressor

Panasonic Rotary Compressor

Condenser

Plate Heat Exchanger

Expansion valve

Fujikoki Electronic Expansion valve Danfoee/Fujikoki

4-way Valve

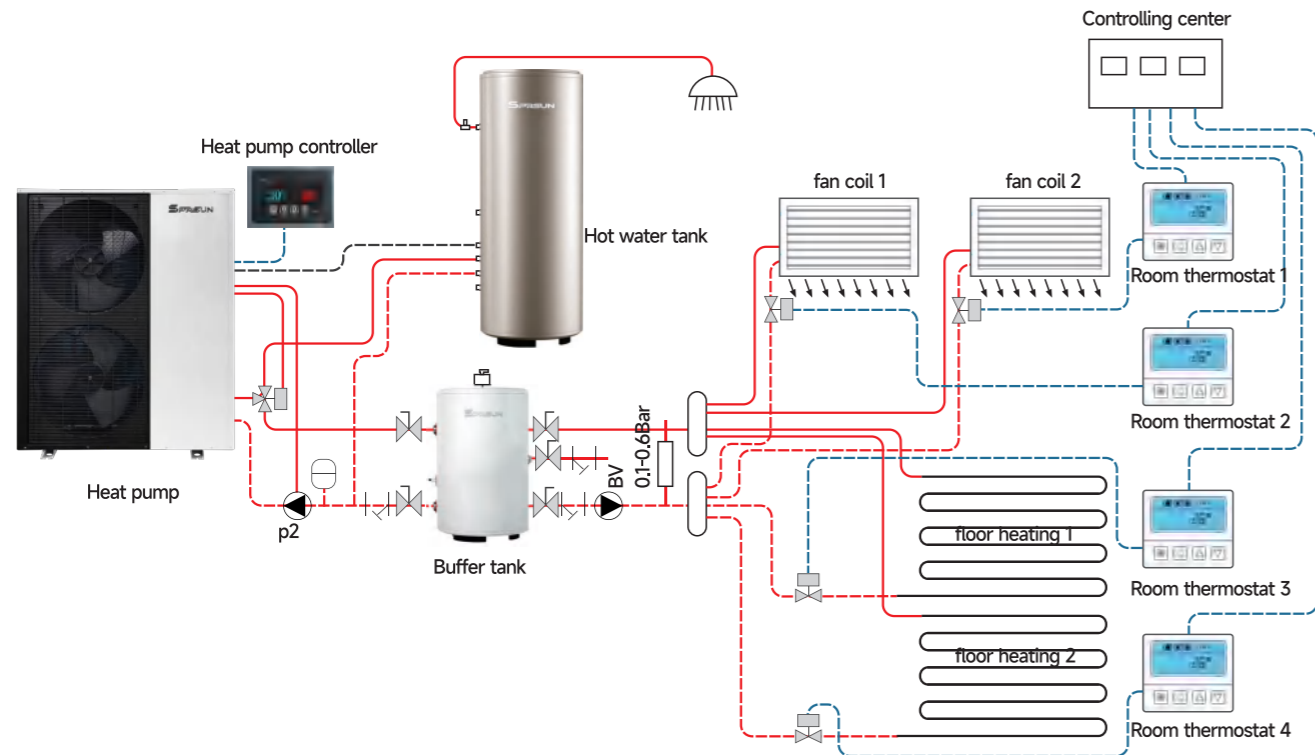
SANHUA

Controller

Touch screen Controller



Installation Diagram



Specifications

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									
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R32						380-420/50/3 - R32														
Max. Heating Capacity (A7°C / W35°C)	kW	6	9.4	11.6	15.8	19.8	21.8	9.4	11.6	15.8	19.8	21.8	28									
C.O.P (A7°C /W35°C)	W/W	4.45	4.56	4.41	4.61	4.71	4.61	4.56	4.42	4.62	4.72	4.62	4.62									
Heating Capacity Min./Max.(A7°C /W35°C)	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	12.88/28.00									
Heating Power Input Min./Max.(A7°C /W35°C)	W	564/1348	759/2061	968/2630	1261/3427	1547/4204	1740/4729	759/2061	966/2624	1259/3420	1544/4195	1736/4719	2230/6061									
C.O.P Min./Max.(A7°C /W35°C)	W/W	4.45/4.90	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	4.62/5.78									
Max. Heating Capacity(A7°C / W45°C)	kW	5.8	9.0	11.1	15.2	19.0	20.9	9.0	11.1	15.2	19.0	20.9	26.9									
C.O.P (A7°C /W45°C)	W/W	3.56	3.65	3.53	3.69	3.77	3.69	3.65	3.54	3.70	3.78	3.70	3.70									
Heating Capacity Min./Max.(A7°C /W45°C)	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	12.36/26.88									
Heating power input Min./Max.(A7°C /W45°C)	W	677/1618	958/2474	1223/3156	1593/4113	1954/5045	2198/5675	958/2474	1220/3149	1590/4104	1950/5034	2193/5662	2817/7273									
C.O.P Min./Max.(A7°C /W45°C)	W/W	3.56/3.92	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	3.70/4.39									
Max. Cooling Capacity (A35°C /W18°C)	kW	5.5	8.6	10.6	14.4	18.1	19.9	8.6	10.6	14.4	18.1	19.9	25.5									
E.E.R (A35°C /W18°C)	W/W	3.45	3.54	3.42	3.58	3.65	3.58	3.54	3.43	3.59	3.66	3.59	3.59									
Cooling Capacity Min./Max.(A35°C /W18°C)	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	11.75/25.54									
Cooling Power Input Min./Max.(A35°C /W18°C)	W	656/1852	929/2423	1185/3091	1544/4028	1894/4941	2131/5558	929/2423	1183/3084	1541/4019	1890/4930	2126/5546	2731/7123									
E.E.R Min./Max.(A35°C /W18°C)	W/W	2.95/3.84	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	3.59/4.30									
Max. Cooling Capacity (A35°C /W7°C)	kW	4.3	6.0	7.5	10.2	12.7	14.0	6.0	7.5	10.2	12.7	14.0	18.0									
E.E.R(A35°C /W7°C)	W/W	2.59	2.48	2.40	2.50	2.56	2.50	2.48	2.40	2.51	2.56	2.51	2.51									
Cooling Capacity Min./Max.(A35°C /W7°C)	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	8.28/18.01									
Cooling Power Input Min./Max.(A35°C /W7°C)	W	575/1720	744/2441	950/3115	1238/4058	1518/4978	1708/5599	744/2441	948/3108	1235/4049	1515/4967	1704/5587	2189/7176									
E.E.R Min./Max.(A35°C /W7°C)	W/W	2.51/3.45	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	2.51/3.79									
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	9.09									
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	19.18									
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									
Fuses or circuit breakers	A	13A	20A	25A	32A	40A	40A	13A	13A	16A	20A	20A	25A									
Compressor	Type - Quantity /System	Twin Rotary - 1																				
Fan	Quantity	1	1	1	1	2	2	1	1	1	2	2	2									
Fan	Airflow m ³ /h	1500	2500	3000	3500	5000	5500	2500	3000	3500	5000	5500	7500									
Fan	Rated power W	30	80	100	120	200	210	80	100	120	200	210	250									
Water Side Heat Exchanger	Type	Plate Heat Exchanger																				
Water Side Heat Exchanger	Water Pressure Drop kPa	15	18	20	21	23	25	18	20	21	23	25	25									
Water Side Heat Exchanger	Piping Connection	G3/4"																				
Water Side Heat Exchanger	Connection	G1"																				
Allowable Water Flow	Min./Rated./Max. L/S	0.18	0.29	0.48	0.28	0.45	0.75	0.35	0.55	0.92	0.47	0.75	1.26	0.59	0.95	1.58	0.65	1.04	1.74	0.84	1.34	2.23
Noise Level	dB(A)	49	56	59	60	61	62	56	59	60	61	62	65									
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									
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									
Packing Dimension(L×D×H)	mm	1070*405*800	1200*540*970	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510	1200*540*970	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510	1200*540*1610									
Net Weight	kg	59	78	88	105	124	124	78	88	105	124	124	150									
Gross Weight	kg	70	101	105	120	150	150	101	105	120	150	150	183									
Gross Weight	kg	80	106	116	126	161	161	106	116	126	161	161	188									

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 ;

Monoblock DC Inverter Air Source Heat Pumps



Features

A+++ Higher Energy Efficiency
Achieving the ERP A+++ energy class, our DC inverter heat pumps save energy by more than 30% compared with ordinary air source heat pumps.

Wide Voltage Application
Operate normally within the voltage range of 150V-260V (1ph) or 330V-450V (3ph) to reduce the impact of voltage instability on the equipment. 150V-260V.

Low Noise
With Panasonic rotary compressor and DC inverter brushless fans, our DC inverter heat pumps adopt new noise reduction measures so that the sound of the unit is controlled at a satisfactory level.

Intelligent Defrosting
The smart defrosting technology makes optimal defrosting decisions to minimize energy consumption and improve customer satisfaction.

Smart Control
The intelligent CAREL controller with RS485 / WIFI APP is adopted to realize the linkage control between the heat pump unit and the terminal application end. With the Cascade function, multiple units can be controlled with one panel.



CGK020V2 CGK030V2 CGK040V2 CGK050V2 CGK060V2 CGK-030V2 CGK-040V2 CGK-050V2 CGK-060V2 CGK-080V2 CGK-100V2

Functions

Multi-functions: hot water, house heating & cooling.

ERP A+++ energy level rated by TUV.

Ambient temperature: -20°C -45°C .

High efficiency with Panasonic rotary compressor.

Super low noise with brushless DC inverter fans.

Smart control with CAREL controller(RS485/WIFI APP).

Cascade function (optional).

Anti-freezing function & smart defrosting.

Power supply: 220V~240V/50Hz/1ph or 380V-420V/50Hz/3ph.

Refrigerant: R410A.

Max. heating capacity: 7.5KW-32KW.

Max. cooling capacity: 6.7KW-28.6KW.

Key Components

Compressor

Panasonic Rotary Compressor

DC Fan

WOLONG Brushless DC Fan

Expansion valve

CAREL Electronic Expansion valve

Pressure Sensor

CAREL Pressure Sensor

Schneider

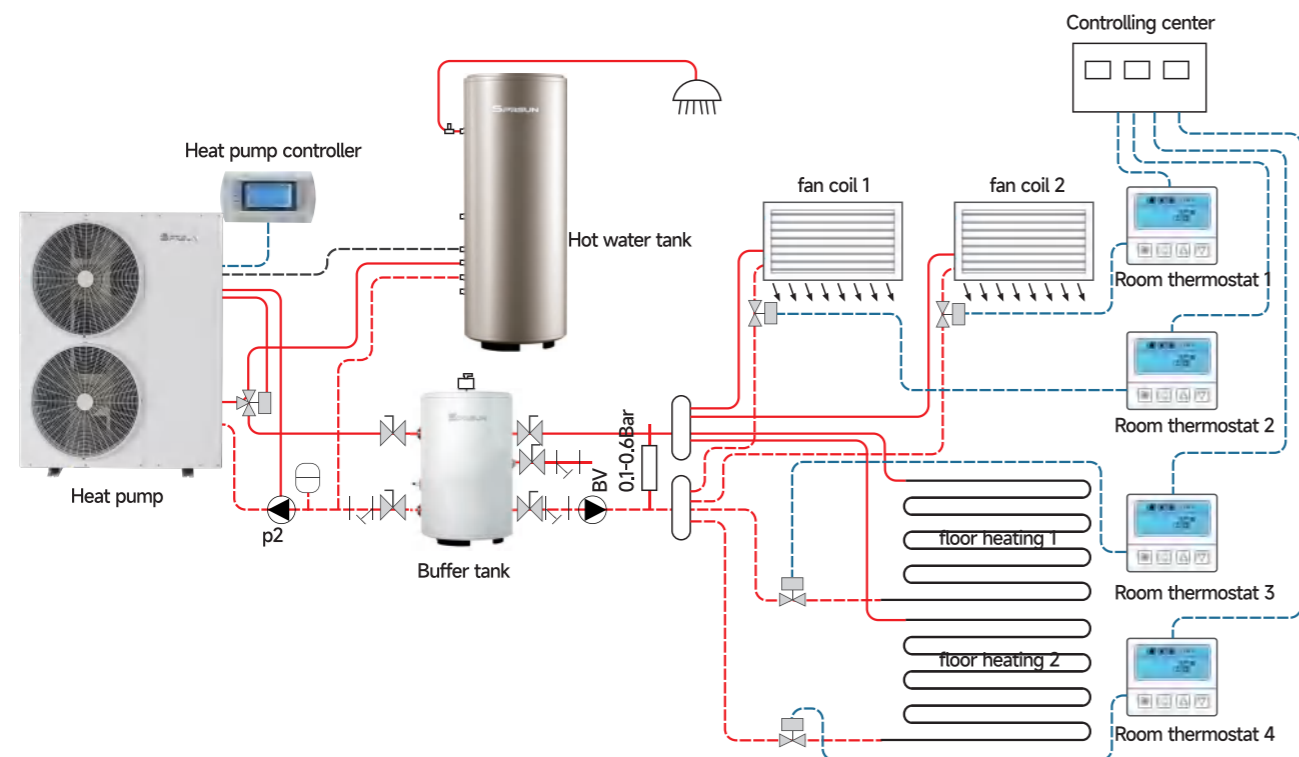
AC Contactor

Controller

CAREL Controller



Installation Diagram

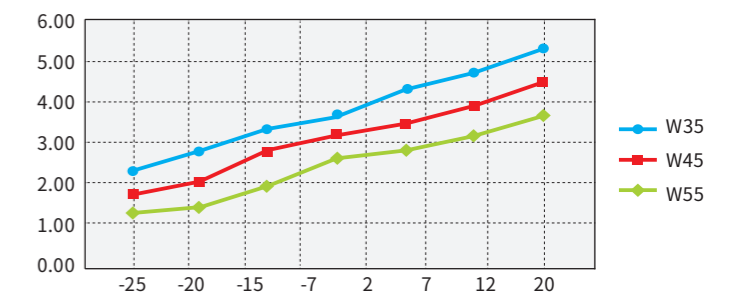


Specifications

Model		CGK020V2	CGK030V2	CGK040V2	CGK050V2	CGK060V2	CGK-030V2	CGK-040V2	CGK-050V2	CGK-060V2	CGK-080V2	CGK-100V2	
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R410A					380-420/50/3 - R410A						
Max. Heating Capacity (1)	kW	7.5	9.5	12.5	16.5	18.5	9.6	12.5	16.6	18.6	26	32	
C.O.P (1)	W/W	4.45	4.45	4.45	4.48	4.39	4.45	4.52	4.52	4.42	4.52	4.42	
Heating Capacity Min./Max.(1)	kW	3.45/7.5	4.37/9.5	5.75/12.5	7.59/16.5	8.51/18.5	4.416/9.6	5.75/12.5	7.636/16.6	8.556/18.6	11.96/26	14.72/32	
Heating Power Input Min./Max.(1)	W	620/1685	786/2135	1034/2809	1355/3683	1551/4214	794/2157	1018/2765	1352/3673	1549/4208	2117/5752	2664/7240	
C.O.P Min./Max.(1)	W/W	4.45/5.56	4.45/5.56	4.45/5.56	4.48/5.60	4.39/5.49	4.45/5.56	4.52/5.65	4.52/5.65	4.42/5.53	4.52/5.65	4.42/5.53	
Max. Heating Capacity(2)	kW	7.1	8.9	11.8	15.5	17.4	9.0	11.8	15.6	17.5	24.4	30.1	
C.O.P (2)	W/W	3.65	3.60	3.60	3.58	3.40	3.60	3.62	3.62	3.43	3.62	3.43	
Heating Capacity Min./Max.(2)	kW	3.24/7.05	4.11/8.93	5.41/11.75	7.13/15.51	8.00/17.39	4.15/9.02	5.41/11.75	7.18/15.60	8.04/17.48	11.24/24.44	13.84/30.08	
Heating power input Min./Max.(2)	W	767/1980	972/2508	1279/3301	1676/4328	1918/4952	982/2535	1259/3249	1672/4315	1915/4945	2618/6759	3295/8507	
C.O.P Min./Max.(2)	W/W	3.56/4.23	3.56/4.23	3.56/4.23	3.58/4.26	3.51/4.17	3.56/4.23	3.62/4.29	3.62/4.29	3.54/4.20	3.62/4.29	3.54/4.20	
Max. Cooling Capacity(3)	kW	6.7	8.5	11.2	14.7	16.5	8.6	11.2	14.8	16.6	23.2	28.6	
E.E.R (3)	W/W	3.54	3.50	3.50	3.48	3.30	3.50	3.51	3.51	3.32	3.51	3.32	
Cooling Capacity Min./Max.(3)	kW	3.08/6.70	3.90/8.48	5.13/11.16	6.78/14.73	7.60/16.52	3.94/8.57	5.13/11.16	6.82/14.82	7.64/16.61	10.68/23.22	13.14/28.58	
Cooling Power Input Min./Max.(3)	W	744/2267	942/2871	1239/3778	1625/4953	1859/5667	952/2901	1220/3719	1620/4939	1857/5659	2538/7736	3194/9737	
E.E.R Min./Max.(3)	W/W	2.95/4.14	2.95/4.14	2.95/4.14	2.97/4.17	2.91/4.09	2.95/4.14	3.00/4.21	3.00/4.21	2.93/4.12	3.00/4.21	2.93/4.12	
Max. Cooling Capacity(4)	kW	5.3	6.7	8.8	11.6	13.0	6.8	8.8	11.7	13.1	18.3	22.6	
E.E.R(4)	W/W	2.65	2.62	2.62	2.61	2.48	2.62	2.63	2.63	2.49	2.63	2.49	
Cooling Capacity Min./Max.(4)	kW	2.43/5.29	3.08/6.70	4.05/8.81	5.35/11.63	6.00/13.04	3.11/6.77	4.05/8.81	5.38/11.70	6.03/13.11	8.43/18.33	10.38/22.56	
Cooling Power Input Min./Max.(4)	W	667/2105	845/2667	1112/3509	1458/4601	1668/5264	854/2695	1095/3454	1454/4587	1666/5256	2277/7185	2866/9043	
E.E.R Min./Max.(4)	W/W	2.51/3.65	2.51/3.65	2.51/3.65	2.53/3.67	2.48/3.60	2.51/3.65	2.55/3.70	2.55/3.70	2.49/3.62	2.55/3.70	2.49/3.62	
Rated Current	A	8.1	10.2	13.4	17.6	20.2	4.6	5.8	7.8	8.9	15.2	19.1	
Max Power Input	kW	2.4	3.1	4.1	5.3	6.1	3.1	4.0	5.3	6.1	10.4	13.1	
Max Current	A	11.69	14.81	19.49	25.55	29.24	6.60	8.46	11.24	12.88	21.99	27.67	
Compressor	Type - Quantity/System	Twin Rotary - 1											
Fan	Quantity	1	1	1	2	2	1	1	2	2	2	1	
	Airflow	m3/h	2500	3000	3500	5000	5500	3000	3500	5000	5500	7500	10000
	Rated power	W	90	100	110	200	210	100	110	200	210	250	500
Water Side Heat Exchanger	Type	Plate Heat Exchanger											
	Water Pressure Drop	kPa	16	20	22	23	25	20	22	23	25	25	25
Allowable Water Flow	Piping Connection	Inch	G3/4"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1 1/4"
	Min./Rated./Max.	L/S	0.22 0.36 0.60	0.28 0.45 0.76	0.37 0.60 1.00	0.49 0.79 1.31	0.55 0.88 1.47	0.29 0.46 0.76	0.37 0.60 1.00	0.50 0.79 1.32	0.56 0.89 1.48	0.55 0.88 1.46	0.67 1.08 1.80
Noise Level	dB(A)	57	59	60	61	62	59	60	61	62	62	63	
Net Dimension(L×D×H)	mm	1110*475*810	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355	1110*475*1455	950*900*1950	
Packing Dimension(L×D×H)	mm	1220*540*970	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510	1200*540*1610	1020*960*2125	
Net Weight	Kg	78	88	98	128	128	88	98	128	128	150	260	
Gross Weight	Kg	105	114	126	161	161	114	126	161	161	176	295	
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 ;													

COP

Air temp °C	COP kW/kW		
-20	2.48	1.87	1.35
-15	2.92	2.13	1.53
-7	3.44	2.92	2.10
2	3.74	3.32	2.72
7	4.45	3.60	2.96
12	4.85	4.00	3.28
20	5.43	4.60	3.77
Hot water temp °C	35	45	55



Split EVI DC Inverter Air Source Heat Pumps



Features



Anti-freezing Protection

Split model design to better avoid freezing problem. Automatic anti-freezing protection by detecting system water temperature.



Low Noise Operation

Thanks to the DC inverter brushless fans, our split EVI DC inverter heat pumps are operating with sound insulation measures to ensure you have a super low noise unit.



Improved Heating Efficiency

To save energy, it will automatically change to low frequency operation mode when temperature reaches set value.



Reduced Defrosting Time

When the unit needs defrosting, it will use high frequency operation, which greatly reduces the defrosting time.



Low Ambient Temperature (-25°C to 45°C)

Use the Panasonic Enhanced Vapour Injection (EVI) Technology Rotary Compressor. Work stably in cold weather where lowest air temperature reaches -25°C.



CGK030V2LS CGK050V2LS CGK060V2LS CGK-030V2LS CGK-050V2LS CGK-060V2LS

Functions

Multi-functions: hot water, house heating & cooling.

ERP A+++ energy level rated by TUV.

Split model design to avoid freezing problems.

Ambient temperature: -25°C -45°C .

Work stably in cold weather with EVI Panasonic rotary compressor.

Super low noise with brushless DC inverter fans.

Smart control with CAREL controller(RS485/WIFI APP).

Cascade function (optional).

Reduce water consumption with Grundfos inverter pump.

Power supply: 220V-240V/50Hz/1ph or 380V-420V/50Hz/3ph.

Refrigerant: R410A.

Max. heating capacity: 9.6KW-18.9KW.

Max. cooling capacity: 7.9KW-15.6KW.

Key Components

Compressor

Panasonic EVI Rotary Compressor



Inverter Pump

Grundfos Inverter Pump



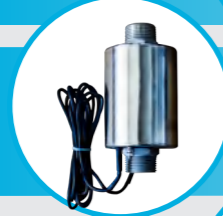
Expansion Tank

5L Expansion Tank



Electric Heater

SUS304 Electric Heater

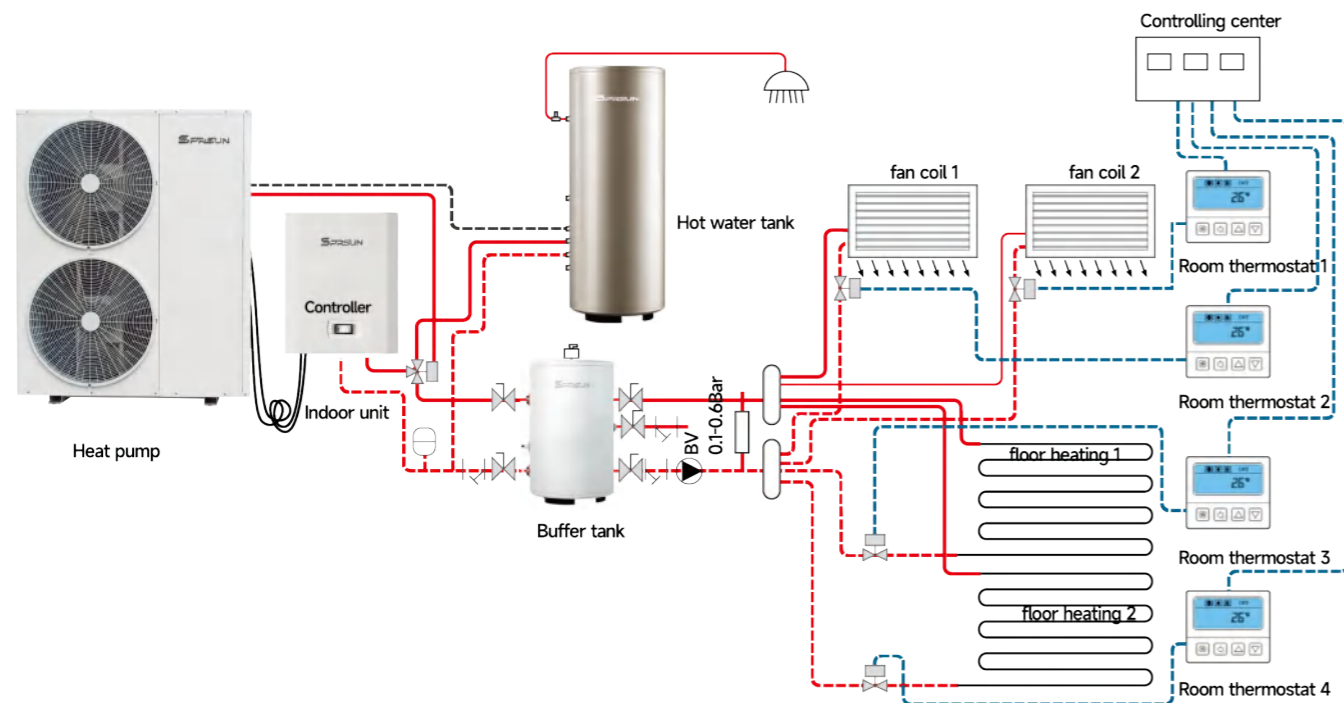


Controller

CAREL Controller



Installation Diagram

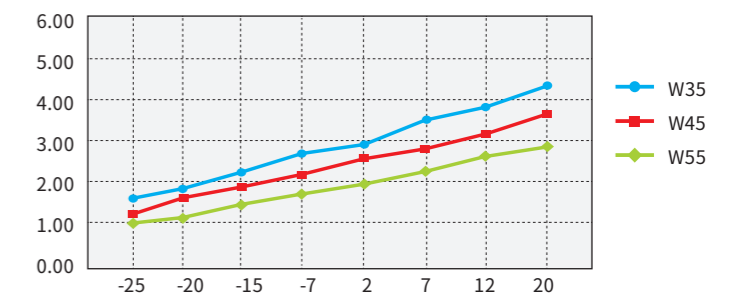


Specifications

Model		CGK030V2LS	CGK050V2LS	CGK060V2LS	CGK-030V2LS	CGK-050V2LS	CGK-060V2LS	
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R410A			380-420/50/3 - R410A			
Max. Heating Capacity (1)	kW	9.6	16.8	18.8	9.8	16.9	18.9	
C.O.P (1)	W/W	4.45	4.48	4.39	4.45	4.48	4.39	
Heating Capacity Min./Max.(1)	kW	4.416/9.6	7.728/16.8	8.648/18.8	4.508/9.8	7.774/16.9	8.694/18.9	
Heating Power Input Min./Max.(1)	W	794/2157	1380/3750	1576/4282	810/2202	1388/3772	1584/4305	
C.O.P Min./Max.(1)	W/W	4.45/5.56	4.48/5.60	4.39/5.49	4.45/5.56	4.48/5.60	4.39/5.49	
Max. Heating Capacity(2)	kW	9.0	15.8	17.7	9.2	15.9	17.8	
C.O.P (2)	W/W	3.60	3.58	3.40	3.60	3.58	3.40	
Heating Capacity Min./Max.(2)	kW	4.15/9.02	7.26/15.79	8.13/17.67	4.24/9.21	7.31/15.89	8.17/17.77	
Heating power input Min./Max.(2)	W	982/2535	1707 /4406	1949/5032	1002/2588	1717/4432	1960/5059	
C.O.P Min./Max.(2)	W/W	3.56/4.23	3.58/4.26	3.51/4.17	3.56/4.23	3.58/4.26	3.51/4.17	
Max. Cooling Capacity(3)	kW	7.9	13.9	15.6	8.1	14.0	15.6	
E.E.R (3)	W/W	3.50	3.48	3.30	3.50	3.48	3.30	
Cooling Capacity Min./Max.(3)	kW	3.65/7.94	6.39/13.90	7.15/15.55	3.73/8.11	6.43/13.98	7.19/15.63	
Cooling Power Input Min./Max.(3)	W	919/2688	1598/4672	1825/5335	938/2744	1607/4699	1834/5363	
E.E.R Min./Max.(3)	W/W	2.95/3.97	2.97/4.00	2.91/3.92	2.95/3.97	2.97/4.00	2.91/3.92	
Max. Cooling Capacity(4)	kW	6.3	11.1	12.4	6.4	11.1	12.4	
E.E.R(4)	W/W	2.62	2.61	2.48	2.62	2.61	2.48	
Cooling Capacity Min./Max.(4)	kW	2.91/6.32	5.09/11.05	5.69/12.37	2.97/6.45	5.12/11.12	5.72 /12.44	
Cooling Power Input Min./Max.(4)	W	831/2672	1444/4645	1649/5305	848/2728	1453/4673	1658/5333	
E.E.R Min./Max.(4)	W/W	2.36/3.50	2.38/3.52	2.33/3.45	2.36/3.50	2.38/3.52	2.33/3.45	
Rated Current	A	10.3	17.9	20.5	4.6	8.0	9.1	
Max Power Input	kW	3.1	5.4	6.2	3.2	5.5	6.2	
Max Current	A	14.97	26.02	29.71	6.74	11.54	13.17	
Compressor	Type - Quantity/System	Twin Rotary - 1						
Fan	Quantity	1	2	2	1	2	2	
	Airflow	m3/h	3000	5000	5500	3000	5000	5500
	Rated power	W	100	200	210	100	200	210
Water Side Heat Exchanger	Type	Plate Heat Exchanger						
	Water Pressure Drop	kPa	20	23	25	20	23	25
	Piping Connection	Inch	G1"	G1"	G1"	G1"	G1"	G1"
Allowable Water Flow	Min./Rated./Max.	L/S	0.29 0.46 0.76	0.50 0.80 1.34	0.56 0.90 1.50	0.29 0.47 0.78	0.50 0.81 1.35	0.56 0.90 1.50
Noise Level	dB(A)	59	62	63	59	62	63	
Expansion Tank	L	5			5			
Electric Heater	kW	3			3			
Electric Heater Current	A	14.4			6.3			
Grundfos Inverter Pump		UPMGEO 25-85-130						
Outdoor Unit Size (L×D×H)	mm	1110*475*810	1110*475*1355	1110*475*1355	1110*475*810	1110*475*1355	1110*475*1355	
Outdoor Packing Size (L×D×H)	mm	1235*540*970	1235*540*1510	1235*540*1510	1235*540*970	1235*540*1510	1235*540*1510	
Indoor Unit Size (L×D×H)	mm	550*325*650						
Indoor Packing Size (L×D×H)	mm	650*450*840						
Outdoor Unit Weight	Kg	74	110	110	74	110	110	
Outdoor Gross Weight	Kg	104	149	149	104	149	149	
Indoor Unit Weight	Kg	38	42	42	38	42	42	
Indoor Gross Weight	Kg	52	56	56	52	56	56	
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 ;								

COP

Air temp °C	COP kW/kW		
-25	2.11	1.71	1.56
-20	2.48	2.13	1.77
-15	2.92	2.48	1.97
-7	3.44	2.82	2.24
2	3.74	3.32	2.49
7	4.45	3.60	2.96
12	4.85	4.00	3.28
20	5.43	4.60	3.77
Hot water temp °C	35	45	55



R32 DC Inverter Swimming Pool Heat Pumps



Features

Advanced Energy-saving Performance

With COP as high as 15.04, the DC inverter pool heat pumps can change the operating frequency of the rotary compressors and fan motors based on the heating needs, greatly speeding up heating time and thus providing more heat compared with traditional pool heat pumps.

Intelligent Control System

SPRSUN R32 DC inverter swimming pool heat pumps adopt intelligent touch screen controller for users to easily adjust temperature and manage operation. They also have the Wi-Fi remote control function so that users can use their smartphones to monitor and control the working situation of their inverter pool heat pump anytime and anywhere.

Upgraded Installation Efficiency

When you have a new pool heat pump installed, you do not only consider costs, sizing, efficiency and durability, but also ease of installation. The cuboid design of the domestic inverter pool heat pump, concise and clean, is full of convenience sense, making it one of easiest heat pump pool heaters to install.

Work Silently in Your Backyard

By adopting step-less Panasonic inverter compressors and brushless Nidec DC fans, SPRSUN DC inverter pool heat pumps stay peaceful when heating or cooling your pool water due to its internal noise reduction measures. They provide great silence in your swimming environment, 10dB(A) lower than traditional domestic on/off pool heat pumps.

Supper Chemical Resistance to Avoid Corrosion

The full inverter pool heat pumps use Titanium Tube-in-Shell Heat Ex-changer with superior chemical resistance so as to avoid corrosion. Titanium is hard, corrosion-resistant, and heat-resistant, making it a great option for handling the high temperatures, water erosion, and the pressure required to run a pool heat exchanger.



CGY015V3 CGY020V3 CGY025V3 CGY030V3 CGY035V3 CGY040V3 CGY050V3 CGY060V3 CGY-080V3

Functions

Function: domestic pool water heating/cooling.

Constant pool water temperature.

Anti-corrosion with titanium tube-in-shell heat exchanger.

Save energy and speed up heating time with COP up to 15.04.

Stay silent in your backyard with super low noise 40 dB(A).

Intelligent control with the touch screen controller and WIFI app.

Power supply: 220V~240V/50Hz/1ph.

Refrigerant: R32.

Max. heating capacity: 6.5KW-39KW.

Max. cooling capacity: 3.6KW-21.5KW.

Key Components

Compressor

Panasonic Rotary Compressor



Condenser

Tube in shell heat exchanger



Expansion valve

Danfoss electronic expansion valve



4-way Valve

SANHUA

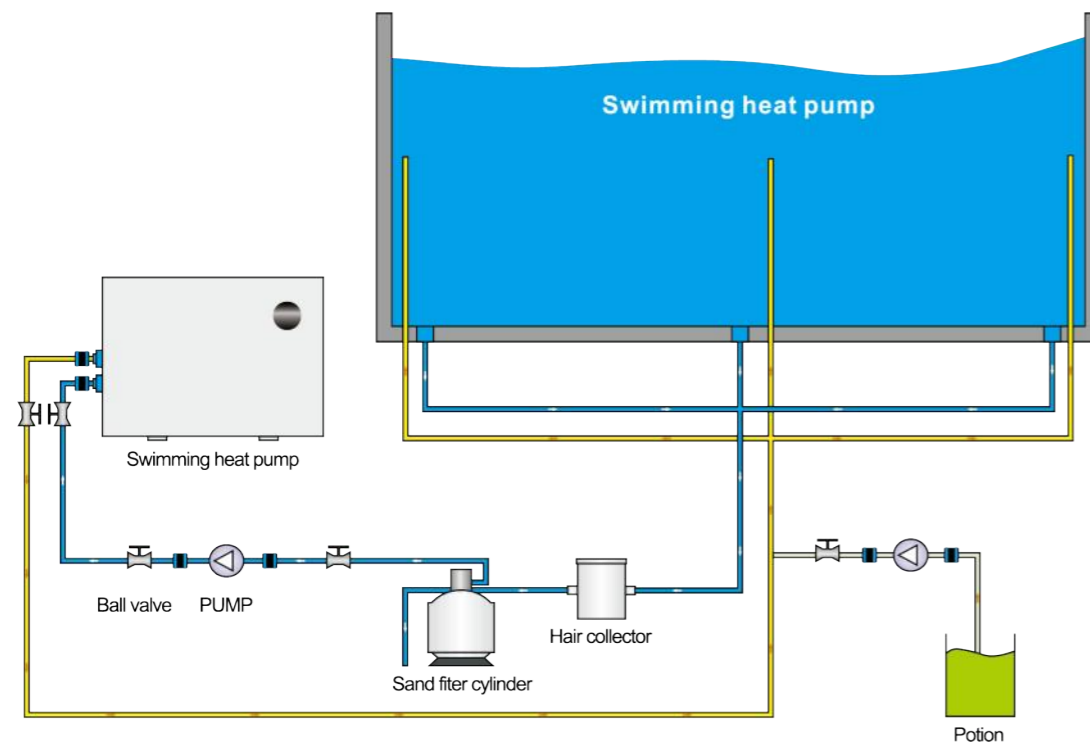


Controller

SPRSUN multiple function Controller



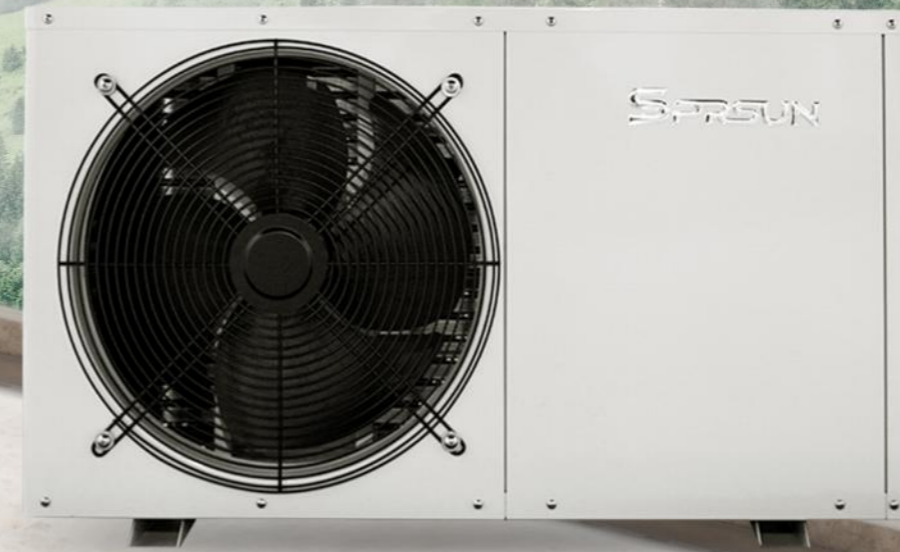
Installation Diagram



Specifications

Model		CGY015V3	CGY020V3	CGY025V3	CGY030V3	CGY035V3	CGY040V3	CGY050V3	CGY060V3	CGY-080V3																			
Advised Pool Volume	m3	15-20	20-30	25-40	30-60	40-80	50-100	50-100	60-120	80-140																			
Power Supply	V / Hz / Ph	220-240 / 50 / 1																											
Refrigerant		R32																											
Max. Heating Capacity (1)	kW	6.5	9	10.5	14	17	23	28	30	39																			
C.O.P (1)	W / W	6.9	7.52	7.45	7.41	7.28	7.32	7.05	7.04	6.98																			
Heating Capacity Min. / Max.(1)	kW	2.02 / 6.5	2.79 / 9	3.26 / 10.5	4.34 / 14	5.27 / 17	7.13 / 23	8.68 / 28	9.30 / 30	12.09 / 39																			
Heating Power Input Min. / Max.(1)	W	146 / 942	186 / 1197	218 / 1409	293 / 1889	362 / 2335	487 / 3142	616 / 3972	661 / 4261	866 / 5587																			
C.O.P Min. / Max.(1)	W / W	6.9 / 13.80	7.52 / 15.04	7.45 / 14.90	7.41 / 14.82	7.28 / 14.56	7.32 / 14.64	7.05 / 14.10	7.04 / 14.08	6.98 / 13.96																			
Max. Heating Capacity(2)	kW	4.7	6.5	7.6	10.1	12.2	16.6	20.2	21.6	28.1																			
C.O.P (2)	W / W	4.80	5.23	5.18	5.15	5.06	5.09	4.90	4.89	4.85																			
Heating Capacity Min. / Max.(2)	kW	1.50 / 4.68	2.07 / 6.48	2.42 / 7.56	3.23 / 10.08	3.92 / 12.24	5.30 / 16.56	6.45 / 20.16	6.91 / 21.60	8.99 / 28.08																			
Heating power input Min. / Max.(2)	W	197 / 976	251 / 1240	295 / 1460	396 / 1957	489 / 2419	658 / 3255	832 / 4114	893 / 4415	1170 / 5788																			
C.O.P Min. / Max.(2)	W / W	4.80 / 7.59	5.23 / 8.27	5.18 / 8.20	5.15 / 8.15	5.06 / 8.01	5.09 / 8.05	4.90 / 7.76	4.89 / 7.74	4.85 / 7.68																			
Max. Cooling Capacity(3)	kW	3.6	5.0	5.8	7.7	9.4	12.7	15.4	16.5	21.5																			
E.E.R (3)	W / W	3.12	3.40	3.37	3.35	3.29	3.31	3.18	3.18	3.15																			
Cooling Capacity Min. / Max.(3)	kW	1.64 / 3.58	2.28 / 4.95	2.66 / 5.78	3.54 / 7.70	4.30 / 9.35	5.82 / 12.65	7.08 / 15.40	7.59 / 16.50	9.87 / 21.45																			
Cooling Power Input Min. / Max.(3)	W	352 / 1147	447 / 1457	526 / 1716	705 / 2300	872 / 2843	1173 / 3825	1483 / 4835	1591 / 5188	2086 / 6803																			
E.E.R Min. / Max.(3)	W / W	3.12 / 4.68	3.40 / 5.10	3.37 / 5.05	3.35 / 5.02	3.29 / 4.93	3.31 / 4.96	3.18 / 4.78	3.18 / 4.77	3.15 / 4.73																			
Rated Current	A	4.5	5.7	6.7	9.0	11.2	15.0	19.0	20.4	11.8																			
Max Current	A	6.5	8.3	9.8	13.1	16.2	21.80	27.55	29.56	17.10																			
Max Power Input	kW	1.34	1.70	2.00	2.68	3.32	4.46	5.64	6.05	7.93																			
Compressor	Type - Quantity / System	Twin Rotary - 1																											
Fan	Quantity	1																											
	Airflow	m3 / h	1500	2000	2400	3000	3000	5000	5000	5500	8000																		
	Rated power	W	33	36	40	80	80	200	200	210	250																		
Water Side Heat Exchanger	Type	Titanium Tube in PVC																											
	Water Pressure Drop	kPa	8	9	9.5	10	11	15	20	22	25																		
	Piping Connection	mm	φ50																										
Allowable Water Flow	Min. / Rated. / Max.	L / S	0.39	0.62	0.78	0.54	0.86	1.07	0.63	1.00	1.25	0.84	1.34	1.67	1.02	1.62	2.03	1.37	2.20	2.75	1.67	2.68	3.34	1.79	2.87	3.58	2.33	3.73	4.66
Noise Level	dB(A)	41	43	45	49	52	55	58	60	62																			
Net Dimension(L×D×H)	mm	930*380*670	930*380*670	930*380*670	1090*510*820	1090*510*820	1090*510*1000	1090*510*1000	1090*550*1100	1090*550*1100																			
Packing Dimension(L×D×H)	mm	960*410*770	960*410*770	960*410*770	1120*540*930	1120*540*930	1120*540*1120	1120*540*1120	1120*540*1230	1120*540*1230																			
Net Weight	kg	48	57	64	88	92	105	124	135	150																			
Gross Weight	kg	50	60	67	93	97	110	135	145	176																			
Note: (1) Performance Condition: Air 27°C / Water 26°C / Humidity 80%																													
(2) Performance Condition: Air 15°C / Water 26°C / Humidity 70%																													
(3) Performance condition: Air 35°C / Water 28°C / Humidity 64%																													

Domestic Air To Water Heat Pumps



Functions

Function: Domestic hot water heating

Max.Outlet Water Temperature: 60° C

Working Ambient Temperature: -10° C to 45° C

Lower Noise Level: 42DB-45DB

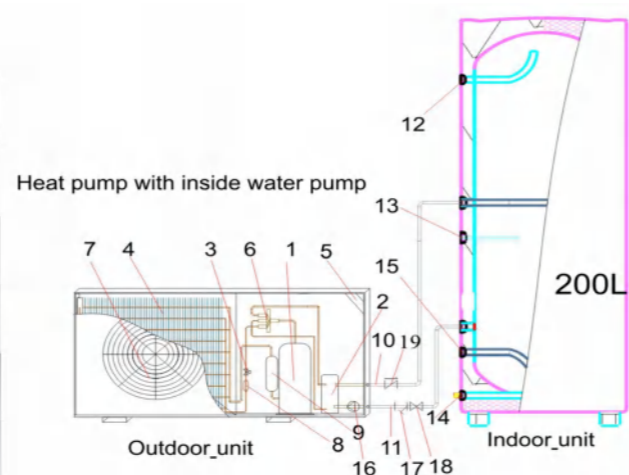
Power supply: 220V~240V/50Hz/1ph

Refrigerant: R401A

Max. heating capacity: 3.8KW-9KW

Installation Diagram

- | | |
|---------------------------------|--|
| 1.Compressor | 12.Hot water outlet |
| 2.Condenser | 13.Water tank temp sensor tube |
| 3.Electronic Expansion valve | 14.Drain water pipe |
| 4.Evaporator | 15.Cool water inlet |
| 5.Controlling system | 16.Water pump(can inside or outside heat pump) |
| 6.4-way valve | 17.Water filter |
| 7.Fan motor | 18.Gate valve |
| 8.Filter | 19.non-return valve |
| 9.Gas-liquid separator | |
| 10.Cycle water pipe(To tank) | |
| 11. Cycle water pipe(From tank) | |



Specifications

Model		CGKS-3.5	CGKS-5.5	CGKS-7	CGKS-9
Power supply	V	220V ~ 240V/50Hz/1ph			
Refrigerant		R410A			
Heating capacity	KW	3.8	5.5	7.6	9
Input power	KW	0.92	1.33	1.84	2.23
COP		4.15	4.12	4.14	4.12
Rated current	A	4.6	6.7	9.3	11.3
Max current	A	6.2	9.1	12.5	15.2
Max input power	KW	1.3	1.9	2.6	3.1
Fan motor power	W	30	30	40	40
Fan motor quantity	Piece	1	1	1	1
Condenser		Tube in shell heat exchanger			
Water flow	L/h	726	1051	1452	1758
Water rate	L/h	82	118	163	193
Water pressure drop	Kpa	≤ 15	≤ 18	≤ 25	≤ 27
Net weight	kg	40	46	55	62
Gross weight	kg	45	52	57	65
Noise	db	42	42	45	45
Classification of waterproof		IPX4			
Electric shock proof grade		I			
Pipe size (internal thread)	mm	DN20	DN20	DN20	DN20
Water pump	WILO	RS15-6	RS15-6	RS15-6	RS15-6
Dimension	mm	970*300*550	970*300*550	1006*350*618	1006*350*618
Packing dimension	mm	1040*330*580	1040*330*580	1070*380*650	1070*380*650
Compressor		mitsubishi	mitsubishi	mitsubishi	mitsubishi

Rated working condition: dry-bulb temp: 20°C , wet-bulb temp: 15°C , cool water temp: 15°C , hot water temp:55 °C .MOQ is 5pieces.

Top Discharge Commercial Air To Water Heat Pumps



Functions

Function: commercial air source heating hot water.

Constant pool water temperature max. 40°C (45°C optional).

Anti-corrosion with titanium tube-in-shell heat exchanger.

Absorb heat from the air with high COP up to 5.16.

Smart control with RS485 and Cascade function (optional).

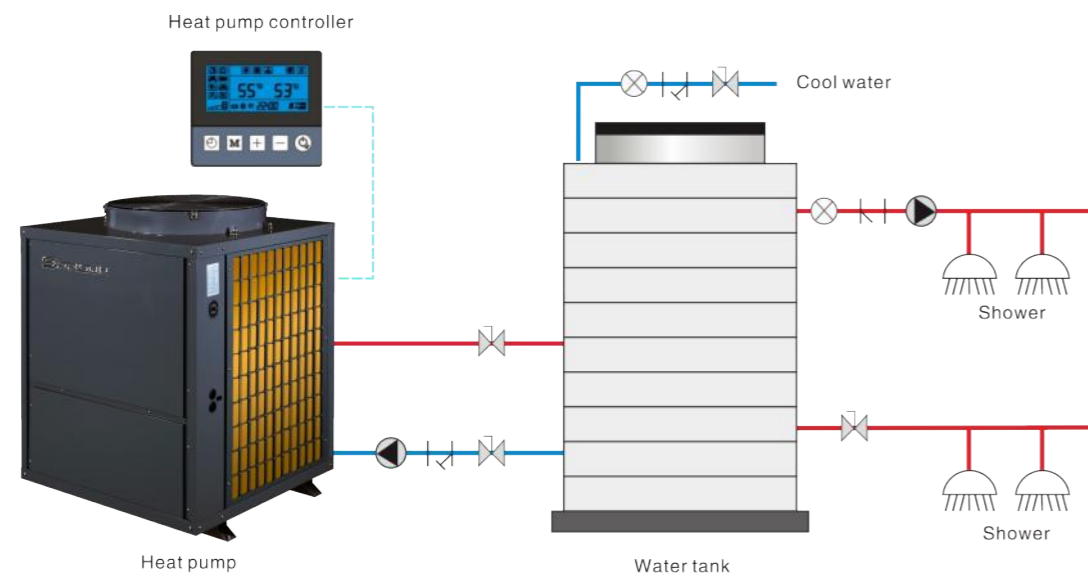
Power supply: 220V~240V/50Hz/1ph or 380V-415V/50Hz/3ph.

Refrigerant: R410A/R407C.

Heating capacity: 10KW-100KW.

Cooling capacity: 6.5KW-65KW.

Installation Diagram



Specifications

Model		CGK/D-9	CGK/D-12	CGK/D-18	CGK/D-12	CGK/D-18	CGK/D-22	CGK/D-36	CGK/D-42	CGK/D-52	CGK/D-72	CGK/D-95
Power supply	V	220V ~ 240V/50Hz/1ph					380V ~ 415V/50Hz/3ph					
Refrigerant		R410A									R407C	
Heating capacity	KW	9.5	13.8	17.5	13.8	18.5	24.5	37	45	52	72	88
Input power	KW	2.29	3.35	4.23	3.35	4.48	5.95	8.96	10.90	12.44	17.22	21.00
COP		4.15	4.12	4.14	4.12	4.13	4.12	4.13	4.13	4.18	4.18	4.19
Rated current	A	11.6	16.9	21.3	6.4	8.5	11.3	17.0	20.7	23.6	32.7	39.9
Max current	A	15.6	22.8	28.8	8.6	11.5	15.2	23.0	27.9	31.9	44.2	53.8
Max input power	KW	3.2	4.7	5.9	4.7	6.3	8.3	12.1	14.7	16.8	23.3	28.4
Fan motor power	W	90	90	250	90	250	250	250	250	550	800	1150
Fan motor quantity	Piece	1					2					
Condenser		Tube in shell heat exchanger										
Water flow	L/h	1815	2637	3344	2637	3535	4681	7070	8598	9936	13758	16815
Water rate	L/h	204	297	376	297	398	527	/	/	/	/	/
Water pressure drop	Kpa	≤ 30	≤ 35	≤ 40	≤ 35	≤ 45	≤ 50	≤ 55	≤ 60	≤ 65	≤ 70	≤ 75
Net weight	kg	95	100	140	100	140	148	250	286	300	673	693
Gross weight	kg	101	106	150	106	150	158	268	306	320	777	808
Noise	db	52	52	57	52	57	58	65	65	68	75	78
Classification of waterproof		IPX4										
Electric shock proof grade		I										
Pipe size (internal thread)	mm	25	25	25	25	25	25	32	32	40	50	65
Dimension	mm	710*710*925	710*710*925	810*810*1055	710*710*925	810*810*1055	810*810*1055	1450*740*1150	1580*855*1200	1850*1000*1950	1850*1000*1950	2000*1100*2080
Packing dimension	mm	780*780*1075	780*780*1075	890*890*1205	780*780*1075	890*890*1205	890*890*1205	1540*820*1320	1700*950*1470	1940*1120*2180	1940*1120*2180	2090*1200*2260
Compressor model/quantity		ZW28KWP*1	ZW42KWP*1	ZW51KWP*1	ZW42KWP*1	ZW54KWP*1	ZW72KWP*1	ZW54KWP*2	ZW72KWP*2	ZW83KWP*2	ZW108KAE*2	VR144KSE*2

Rated working condition: dry-bulb temp: 20°C, wet-bulb temp: 15°C, cool water temp: 15°C, hot water temp: 55°C.

SPRSUN Heat Pump Family



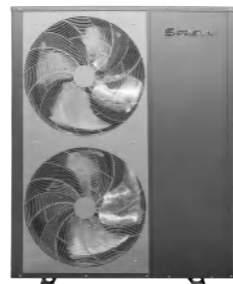
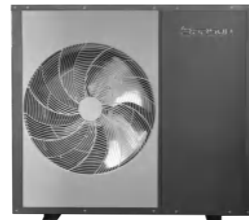
SPRSUN R290 DC Inverter Air Source Heat Pumps

Max. heating capacity: 9KW-18KW



R32 Monoblock EVI DC Inverter Air Source Heat Pumps

Max. heating capacity: 9.5KW-22KW



ERP A+++ R32 Cold Climate Full Inverter Heat Pumps

Max. heating capacity: 6KW-28KW



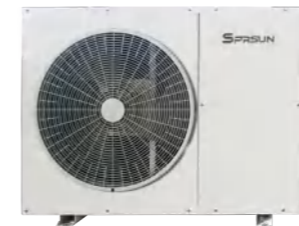
Monoblock DC Inverter Air Source Heat Pumps

Max. heating capacity: 9.5KW-32KW



Split EVI DC Inverter Air Source Heat Pumps

Max. heating capacity: 9.5KW-18.9KW



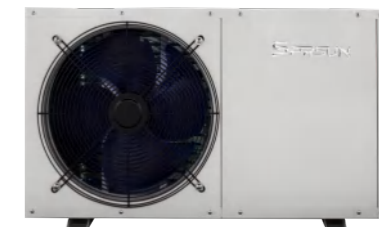
R32 Full Inverter Swimming Pool Heat Pumps

Max. heating capacity: 6.5KW-39KW



Domestic Air To Water Heat Pumps

Max. heating capacity: 3.8-9.2KW



Top Discharge Commercial Air To Water Heat Pumps

Max. heating capacity: 9.5KW-88KW



Service & Support

OEM/ODM Support

SPRSUN offers the following benefits for its OEM/ODM partners:

Produce Europe standard products under partner's brand/logo.

Customize the shape, colors and materials to meet partner's special needs.

Customize the specifications based on partner's own design.

Offer heat pumps at competitive prices to ensure high profit margins. Sign a Non-Disclosure Agreement with our OEM/ODM partner!

We welcome your heat pump OEM/ODM opportunities. Let's hear from you and study your project together.



Technical Support

36-Month warranty plus lifelong maintenance support:

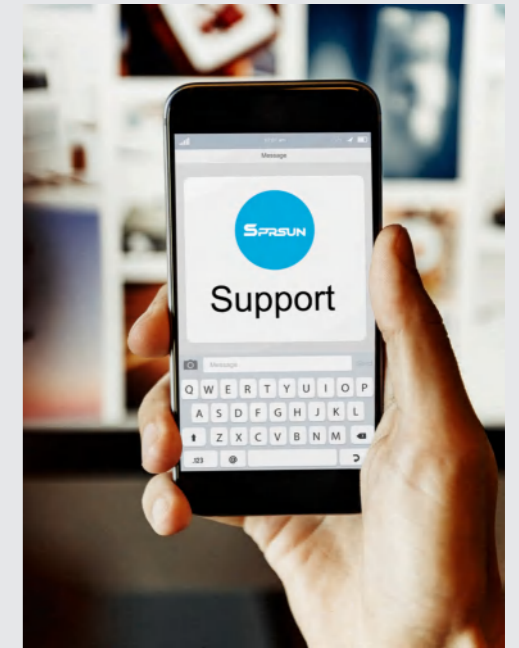
SPRSUN offers 36-month long warranty. Within 36 months since the delivery date, if the product has any failure under normal usage, we will provide free assembly parts.

After the expiration of the warranty period, we will continue to provide lifelong maintenance services, with just a small amount of charges.

Provide solutions according to different customers' requirements.

Provide comprehensive and professional technical training on instructions and maintenance to customers.

We promise to offer free consulting in 7×24 hours mode to solve the problems found in practice.



Sales & Marketing Support

SPRSUN offers the following cutting-edge benefits for its channel partners:

Every year SPRSUN invests in global marketing to help improve the brand awareness of our heat pumps in local areas.

According to the seasons and customers' demands, the company provides corresponding promotion strategies to help re-sellers explore more sales opportunities.

Provide complete sales tools, including catalogue, flyers, product images, etc.

Strictly implement the management policy of distributors/resellers based on our mutual contracts.



SPRSUN - Your Best OEM/ODM Heat Pump Partner
Contact Our Customized Solutions Team to Start Building Your Solution.

Logo
Customization

Materials
Customization

Appearance
Customization

Specifications
Customization



SWEDEN
 NORWAY
 FINLAND
 ESTONIA
 LATVIA
 LITHUANIA
 DENMARK
 UNITED KINGDOM
 GERMANY
 POLAND
 BELARUS
 IRELAND
 FRANCE
 AUSTRIA
 HUNGARY
 UKRAINE
 ROMANIA
 ITALY
 GREECE
 TURKEY
 SYRIA
 JORDAN
 SAUDI ARABIA
 EGYPT
 SOUTH AFRICA
 SOUTH AFRICA

RUSSIA

MONGOLIA

CHINA

INDIA

SFRSUN

THAILAND
 VIETNAM
 CAMBODIA
 PHILIPPINES
 MALAYSIA

AUSTRALIA

NEW ZEALAND

CANADA

UNITED STATES

BRAZIL

CHILE

ARGENTINA

Your Comfort Our Promise

Our heat pump products have been
exported to over 60 countries.

Projects Worldwide

SPRSUN is around you no matter what seasons!

