



YOUR COMFORT, OUR PROMISE.

GUANGZHOU SPRSUN NEW ENERGY TECHNOLOGY DEVELOPMENT CO., LTD.
www.sprsunheatpump.com



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The content in the catalogue may be different from the actual products due to hardware updates.
 Please refer to the actuality.

SPRSUN

A Professional Heat Pump Manufacturer Since 1999

FOCUS ON HOT WATER HOUSE HEATING AND COOLING



Values of SPRSUN

Innovation, service, faith, dedication, win-win situation.

Mission of SPRSUN

To create an energy-saving value, make a happy life.

**SPRSUN IS AROUND YOU NO
MATTER WHAT SEASONS!**

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COMPANY PROFILE

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 Markets

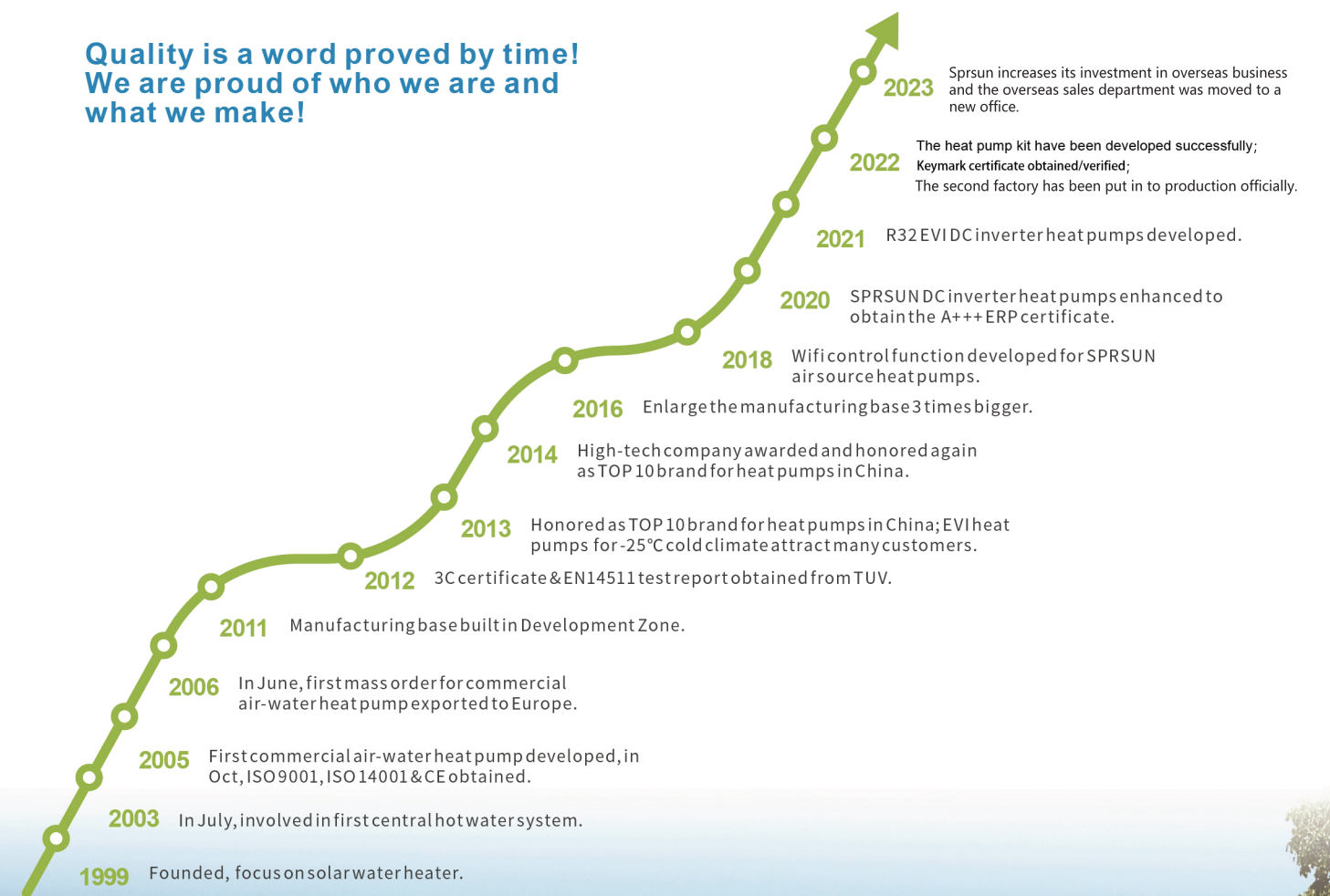
Over the years, excellent products based on leading technology and professional service have earned SPRSUN its reputation as the world's leading heat pump manufacturing and supplying company. Our products are popular all over the world, such as Germany, Sweden, Serbia, Turkey, Czech, Russia, Vietnam,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

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.

HISTORICAL DEVELOPMENT

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



CERTIFICATES



CE Poska



ISO 19001



ISO 14001



KEYMARK Test Report



ROHS Certificate



ERP A+ TUV Test Report



ERP A+++ TUV Test Report

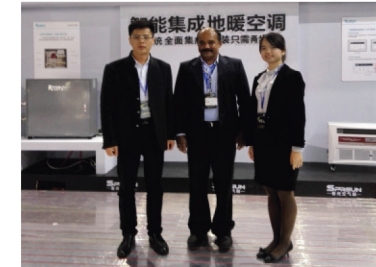


Noise Test Report



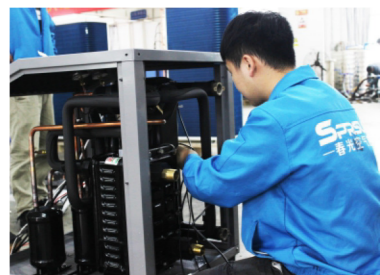
CCC Certificate

GLOBAL PARTNERS



PRODUCTION LINES

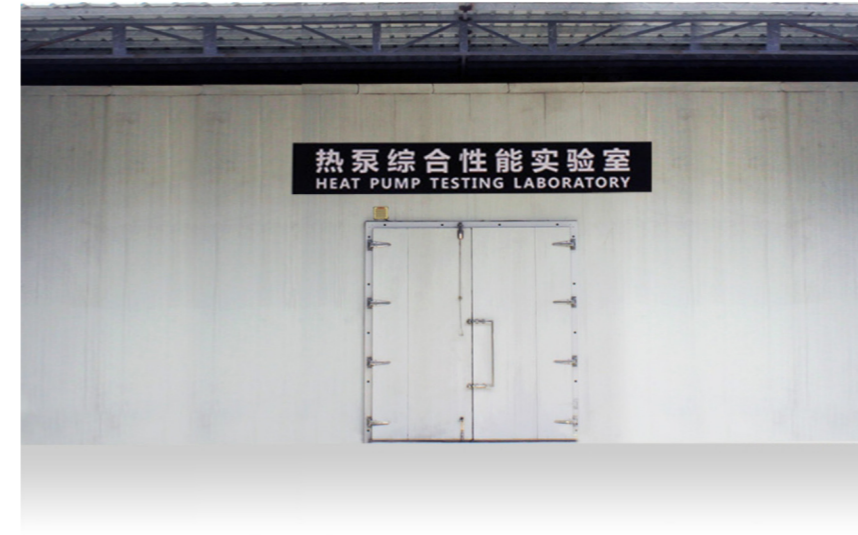
Multiple production lines, advanced equipment, experienced workers and standard production procedures provide us with strong production capacity (over 25000 piece heat pumps per month).



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.



Technical Support by Our Engineers

- 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.



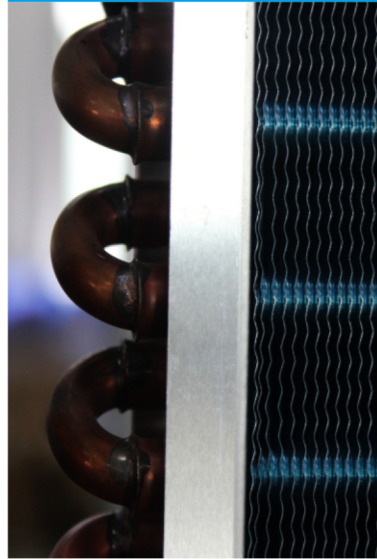
WORKMANSHIP

We Care Every Detail on What You Need.

Super Low Noise
with Fitted Clothes for
Compressor and Strong Pads



Anti-corrosion
with Aluminium Edging



Excellent Welding
Guarantee No Leakage
with Four-Way Valve Protection



Prevent Energy Loss
with 30mm Thickness
for Insulation



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!



OUR PRODUCTS

R32 EVI Monoblock DC Inverter Air Source Heat Pump	
DC Inverter – Monoblock Type	DC Inverter – Monoblock Type
Models	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>R32</p> <p>A+++</p> <p>-25°C</p> <p>Max. COP: 5.95</p> </div> <div style="text-align: center;"> <p>WiFi</p> <p>WiFi Control</p> </div> </div>  <p>Max. Heating Capacity: 9.5KW-22KW</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>R32</p> <p>A+++</p> <p>-30°C</p> <p>Max. COP: 5.89</p> </div> <div style="text-align: center;"> <p>WiFi</p> <p>WiFi Control</p> </div> </div>  <p>Max. Heating Capacity: 6KW-21.8KW</p>
Functions	
<ul style="list-style-type: none"> ● 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: 10.9KW-20.1KW. 	<ul style="list-style-type: none"> ● Multi-functions: hot water, house heating & cooling. ● Ambient temperature: -30-45°C. ● High efficiency with ERP A+++ energy level. ● Panasonic rotary compressor and NIDEC 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-21.8KW. ● Max. cooling capacity: 6.8KW-15.8KW.

R410A DC Inverter Air Source Heat Pumps	
DC Inverter – Monoblock Type	EVI DC Inverter – Split Type
Models	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>A+++</p> <p>-20°C</p> <p>Max. COP: 5.65</p> </div> <div style="text-align: center;"> <p>WiFi</p> <p>WiFi Control</p> </div> </div>  <p>Max. Heating Capacity: 9.5KW-12.5KW</p>  <p>Max. Heating Capacity: 16.5KW-32KW</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>A+++</p> <p>-25°C</p> <p>Max. COP: 5.60</p> </div> <div style="text-align: center;"> <p>WiFi</p> <p>WiFi Control</p> </div> </div>  <p>Max. Heating Capacity: 9.6KW-9.8KW</p>  <p>Max. Heating Capacity: 16.8KW-18.9KW</p>
Functions	
<ul style="list-style-type: none"> ● 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: 9.5KW-32KW. ● Max. cooling capacity: 8.5KW-28.6KW. 	<ul style="list-style-type: none"> ● 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.

Swimming Pool Heat Pumps

Side Discharge Type

Top Discharge Type

Models

R32 **DC Inverter**

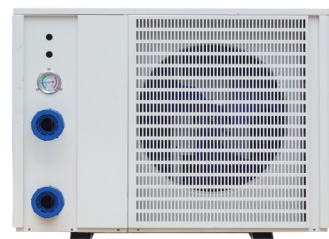
Max. Water Temp.: **40°C**
(45°C Optional)

Max. COP: **5.16**



Heating Capacity: 10KW-26KW

Heating Capacity: 40KW-60KW



Max. Heating Capacity: 6.5KW-17KW

Heating Capacity: 80KW-100KW

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 5.16.
- 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: 4.5KW-16KW
- Max. Cooling Capacity: 2.5KW-8.8KW

- Function: commercial pool water heating/cooling.
- 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.

Air Source Heat Pump Water Heaters

Household Type

Commercial Type

Models

Max. COP: **4.15**

Max. Water Temp.: **60°C**

Max. Water Temp.: **60°C**

WiFi Control
(Optional)



Heating Capacity: 9.5KW-24.5KW

Heating Capacity: 37KW-45KW



Heating Capacity: 3.8KW-9.2KW

Heating Capacity: 52KW-88KW

Functions

- Function: domestic hot water heating.
- Max. outlet water temperature: 60°C
- Ambient temperature: -10°C-45°C.
- Side discharge type.
- High heating efficiency with MITSUBISHI/Panasonic compressor.
- WILLO water pump & Danfoss electronic expansion valve.
- Smart control with RS485 and Cascade function (optional).
- Automatic multiple protections.
- Automatic and forced defrosting function.
- Power supply: 220V ~ 240V/50Hz/1ph.
- Refrigerant: R410A.
- Heating capacity: 3.8KW-9.2KW.

- Function: commercial hot water heating.
- Max. outlet water temperature: 60°C
- Ambient temperature: -10°C-45°C.
- Top discharge type.
- COP up to 4.19 with Copeland scroll compressor.
- Electric heater backup function.
- Smart control with RS485 and Cascade function (optional).
- Automatic multiple protections.
- Automatic and forced defrosting function.
- Power supply: 220V ~ 240V/50Hz/1ph or 380V ~ 415V/50Hz/3ph.
- Refrigerant: R410A/R407C.
- Heating capacity: 9.5KW-88KW.

EVI Low Temp Air Source Heat Pumps

Side Discharge Type

Top Discharge Type

Models

-25°C



Heating Capacity: 10.5KW-11KW



Heating Capacity: 18.5KW-20KW

-25°C



Heating Capacity: 40KW



Heating Capacity: 52KW-92KW

Functions

- Functions: domestic hot water, house heating and cooling.
- Max. outlet water temperature: 60°C
- Ambient temperature: -25°C-45°C.
- Work stably in cold areas with EVI Copeland scroll compressor.
- Smart control with RS485 and Cascade function.
- Electric heater back up function.
- Anti-freezing function.
- Power supply: 220V ~ 240V/50Hz/1ph or 380V ~ 415V/50Hz/3ph.
- Refrigerant: R407C.
- Heating capacity: 10.5KW-26KW.
- Cooling capacity: 7.38KW-17.4KW.

- Functions: commercial hot water, house heating and cooling.
- Max. outlet water temperature: 60°C
- Ambient temperature: -25°C-45°C.
- Work stably in cold areas with EVI Copeland scroll compressor.
- Smart control with RS485 and Cascade function.
- Automatic multiple protections.
- Anti-freezing function.
- Power supply: 380V ~ 415V/50Hz/3ph.
- Refrigerant: R407C/R410A.
- Heating capacity: 40KW-92KW.
- Cooling capacity: 26.8-KW-61.2KW.

Ground/Water Source Heat Pumps

Household Type

Commercial Type

Models

Max. Water Temp.:
60°C

Max. COP:
5.25



Heating Capacity: 10KW-25KW



Max. Water Temp.:
60°C

Max. COP:
5.24



Heating Capacity: 39KW-100KW

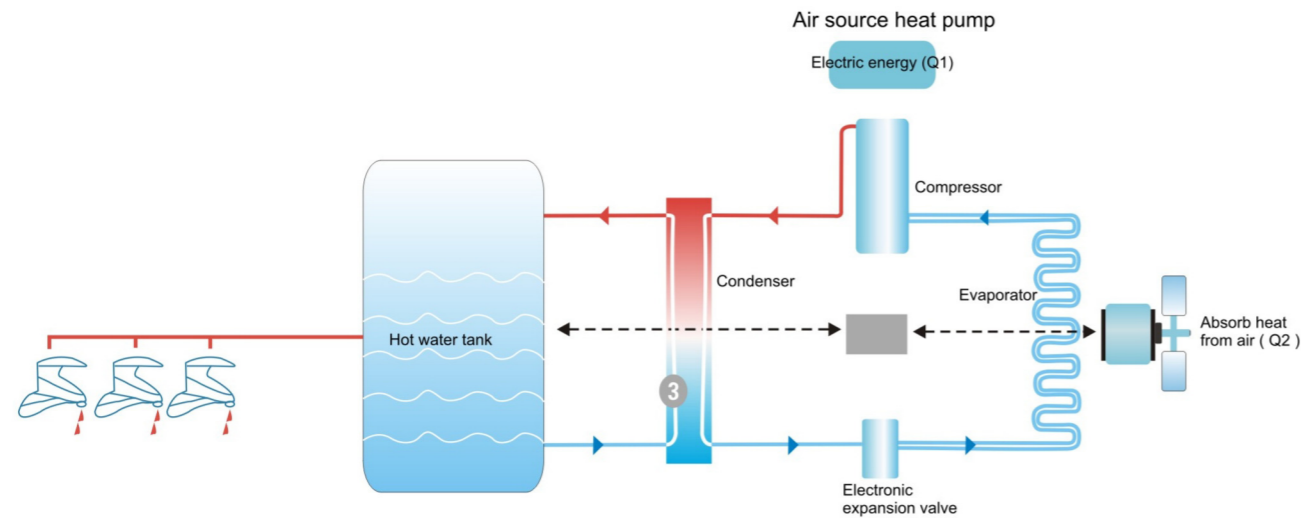
Functions

- Functions: domestic hot water, house heating and cooling.
- Max. outlet water temperature: 60°C
- Working source side outlet water temperature range: -10°C to 35°C
- The system can be either closed loop or open loop.
- Smart control with RS485 and Cascade function (optional).
- Electric heater back up function.
- Defrosting and An-freezing functions.
- Power supply: 220V ~ 240V/50Hz/1ph or 380V ~ 415V/50Hz/3ph.
- Refrigerant: R410A.
- Heating capacity: 10KW-25KW.
- Cooling capacity: 8.5KW-21.3KW.

- Functions: commercial hot water, house heating and cooling.
- Max. outlet water temperature: 60°C
- Working source side outlet water temperature range: -10°C to 35°C
- The system can be either closed loop or open loop.
- Smart control with RS485 and Cascade function (optional).
- Electric heater back up function.
- Multi-protections.
- Power supply: 380V ~ 415V/50Hz/3ph.
- Refrigerant: R410A/R407C.
- Heating capacity: 39KW-100KW.
- Cooling capacity: 33.2KW-85KW.

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 ex-changer, so as to provide house heating and hot water.

Core Advantages



Environment-friendly:
no combustion
or exhaust emission.



All-weather hot
water supply, heating
in winter and cooling
in summer.



Save more than 75%
energy compared
with electric heating.



Separation of water
and electricity, no
hidden danger.

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.



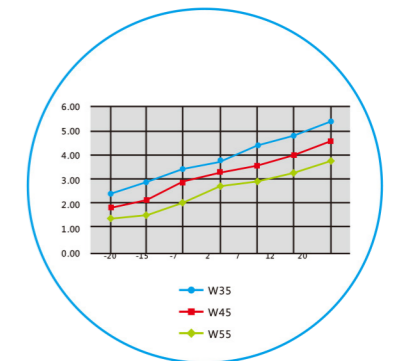
Super Low Noise

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

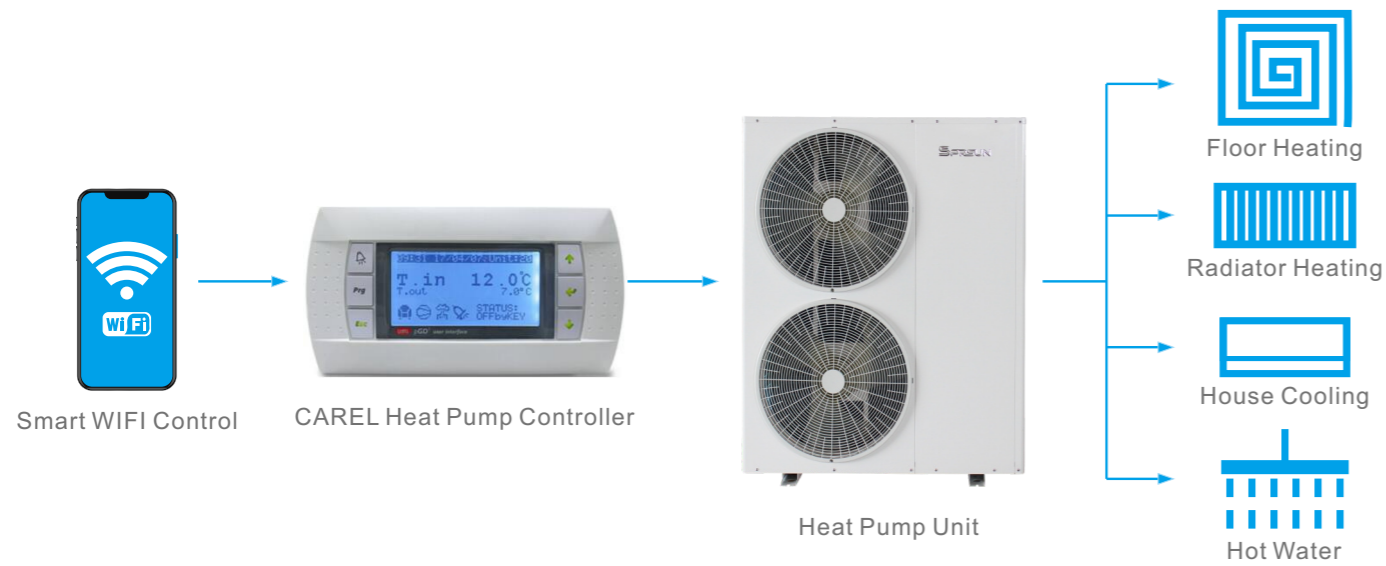
The unit can operate at high frequency to heat water at a faster speed. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain temperature.



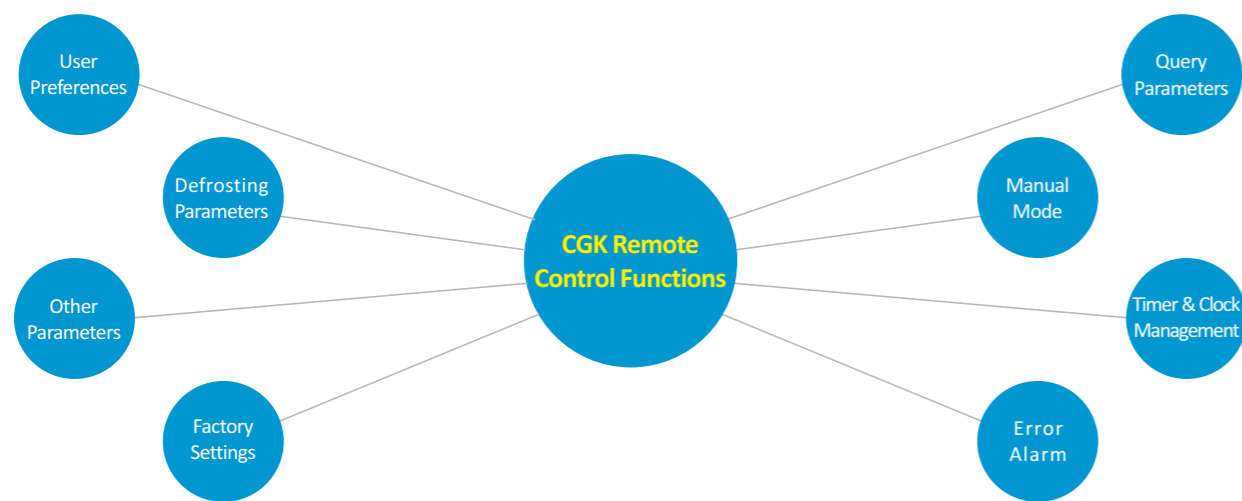
CGK ONLINE INTELLIGENT REMOTE CONTROL SYSTEM

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.



CGK Remote Control Functions



MULTIPLE FUNCTION FIVE WORKING MODES



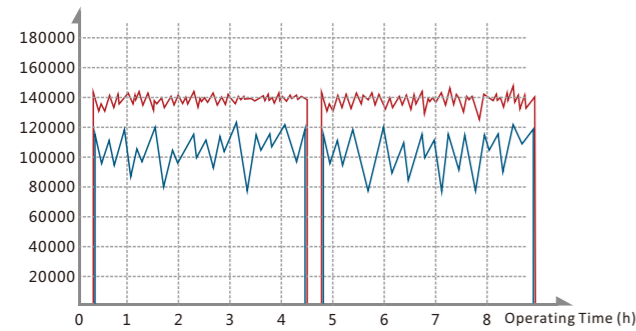
Five Working Modes

- Mode 1 Central Hot Water:** Constant Temperature, Sufficient Water Volume, 24-hour Instant Supply
- Mode 2 Central Cooling:** Water Cooled Air Conditioning, Soft Air Supply, Comfortable for Human Body.
- Mode 3 Whole House Heating:** Water Cycled Floor Heating, Well-distributed Heat Dissipation, Healthy & Energy Saving.
- Mode 4 Hot Water + House Cooling:** Meet the Requirements of Both Central Hot Water and Air Conditioning.
- Mode 5 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

Comparison of Heating Capacity

Heating Capacity



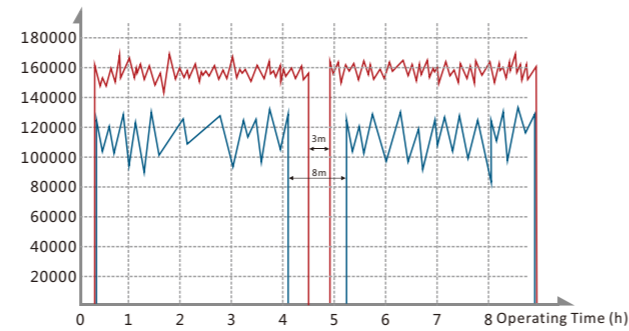
- SPRSUN EVI DC Inverter Heat Pump
- Regular Heat Pump

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 Capability

Heating Capacity



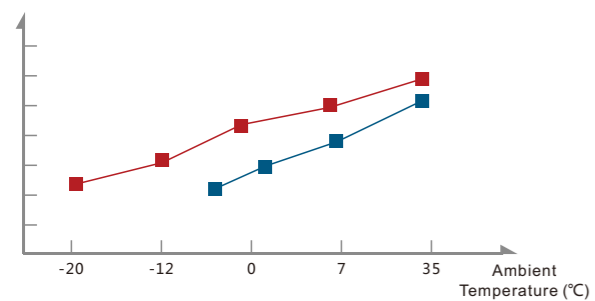
- SPRSUN EVI DC Inverter Heat Pump
- Regular Heat Pump

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.

EVI Low Temp Heating

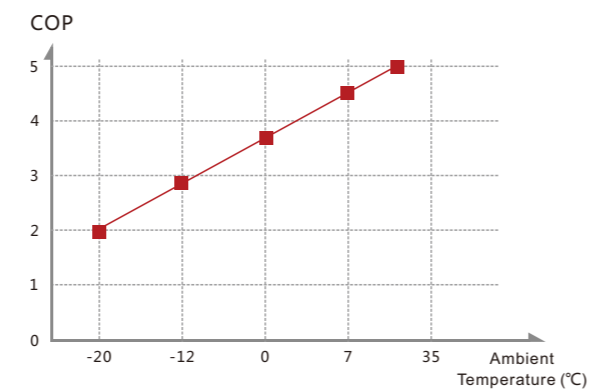
Heating Capacity



- SPRSUN EVI DC Inverter Heat Pump
- Regular Heat Pump

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.

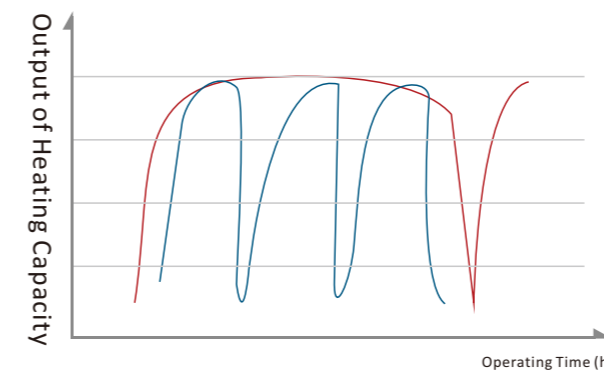
Low Temperature Energy Efficiency



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

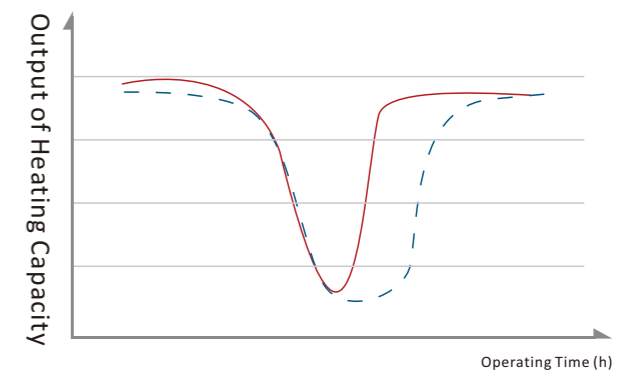
Intelligent Defrosting Technology

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

Wide Area of Application



■ Applicable Area of EVI DC Inverter Heat Pumps

R32 Monoblock EVI DC Inverter Air Source Heat Pump

- **Efficient** - ERP A+++ Energy Label
- **Smart** - CAREL Controller, WIFI Monitoring & Intelligent Protections
- **Quiet** - Panasonic Compressor Dual Shock Absorption
- **Secure** - Anti-explosion Measures

-25°C

Max. COP:
5.95

ERP Label:
A+++



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

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.



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.



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.



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.



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.

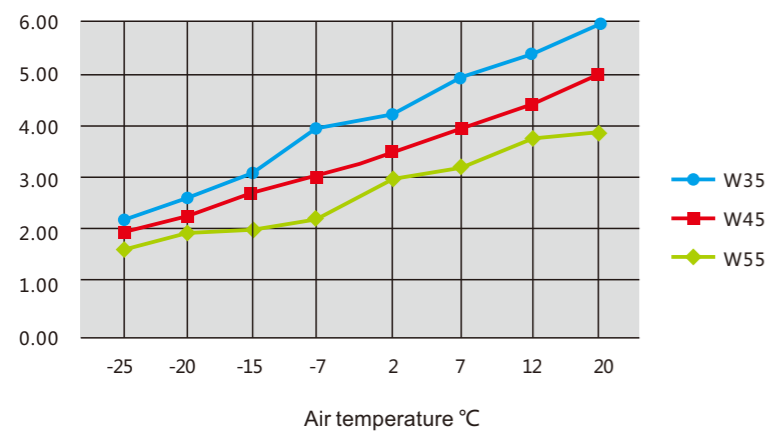
R32 MONOBLOCK EVI DC INVERTER AIR SOURCE HEAT PUMP

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)	WW	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)	WW	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)	WW	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)	WW	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)	WW	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)	WW	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	6.8	8.6	11.5	14.4	15.8	6.8	8.6	11.5	14.4	15.8	
E.E.R(4)	WW	2.70	2.62	2.78	2.80	2.69	2.70	2.62	2.78	2.77	2.62	
Cooling Capacity Min./Max.(4)	kW	3.15/6.84	3.97/8.64	5.30/11.52	6.62/14.40	7.29/15.84	3.15/6.84	3.97/8.64	5.30/11.52	6.62/14.40	7.29/15.84	
Cooling Power Input Min./Max.(4)	W	839/2646	1090/3440	1373/4334	1702/5371	1925/6075	839/2646	1090/3440	1373/4334	1699/5360	1913/6036	
E.E.R Min./Max.(4)	WW	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	14.39	18.71	23.57	29.21	33.04	6.35	8.25	10.39	12.86	14.48	
Compressor	Type - Quantity/System	Twin Rotary - 1					Twin Rotary - 1					
Fan	Quantity	1	1	1	2	2	1	1	1	2	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					Plate Heat Exchanger					
	Water Pressure Drop	kPa	18	20	21	23	25	18	20	21	23	25
	Piping Connection	Inch	G1"	G1"	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	0.28 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
Noise Level	dB(A)	56	59	60	61	62	56	59	60	61	62	
Net Dimension(LxDxH)	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(LxDxH)	mm	1200*540*970	1220*540*970	1200*540*1120	1220*540*1400	1220*540*1400	1200*540*970	1220*540*970	1200*540*1120	1220*540*1400	1220*540*1400	
Net Weight	kg	78	88	98	124	124	78	88	98	124	124	
Gross Weight	kg	106	116	126	161	161	106	116	126	161	161	

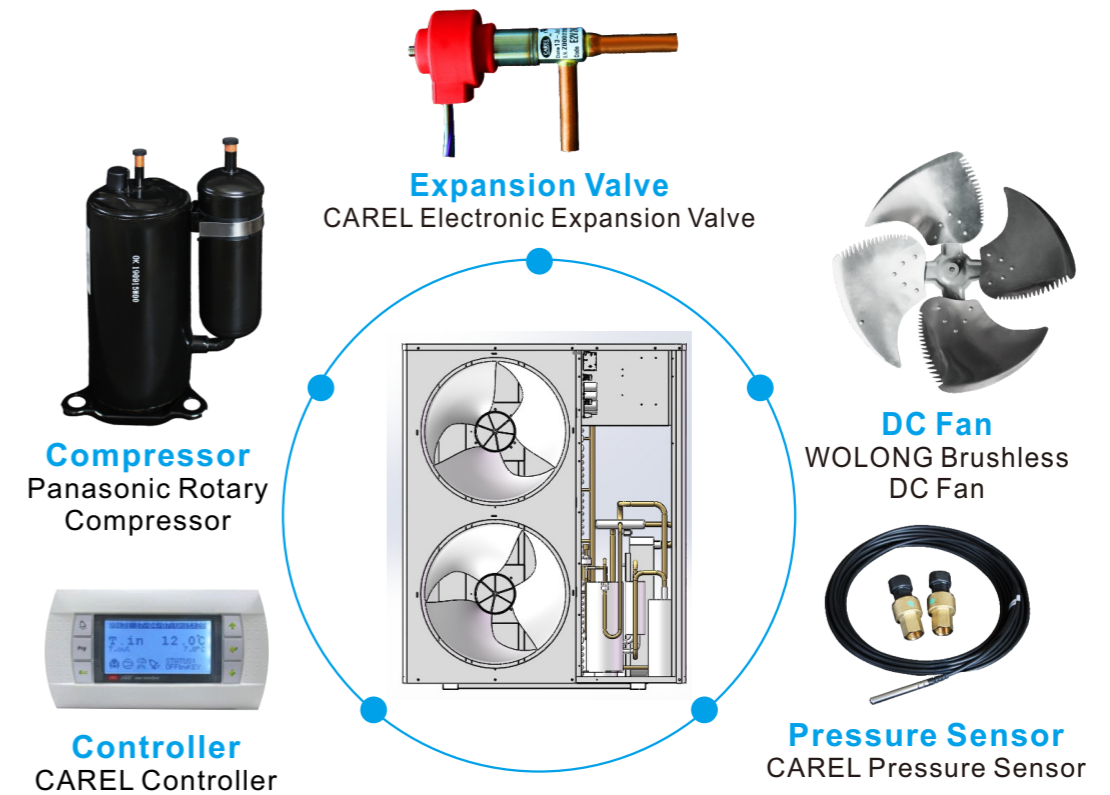
Note: (1) Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C/WB 6°C;
 (2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°C/WB 6°C;
 (3) Cooling condition: water inlet/outlet temperature: 23°C/18°C, Ambient temperature: DB35°C/WB24°C;
 (4) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB35°C/WB24°C.

COP

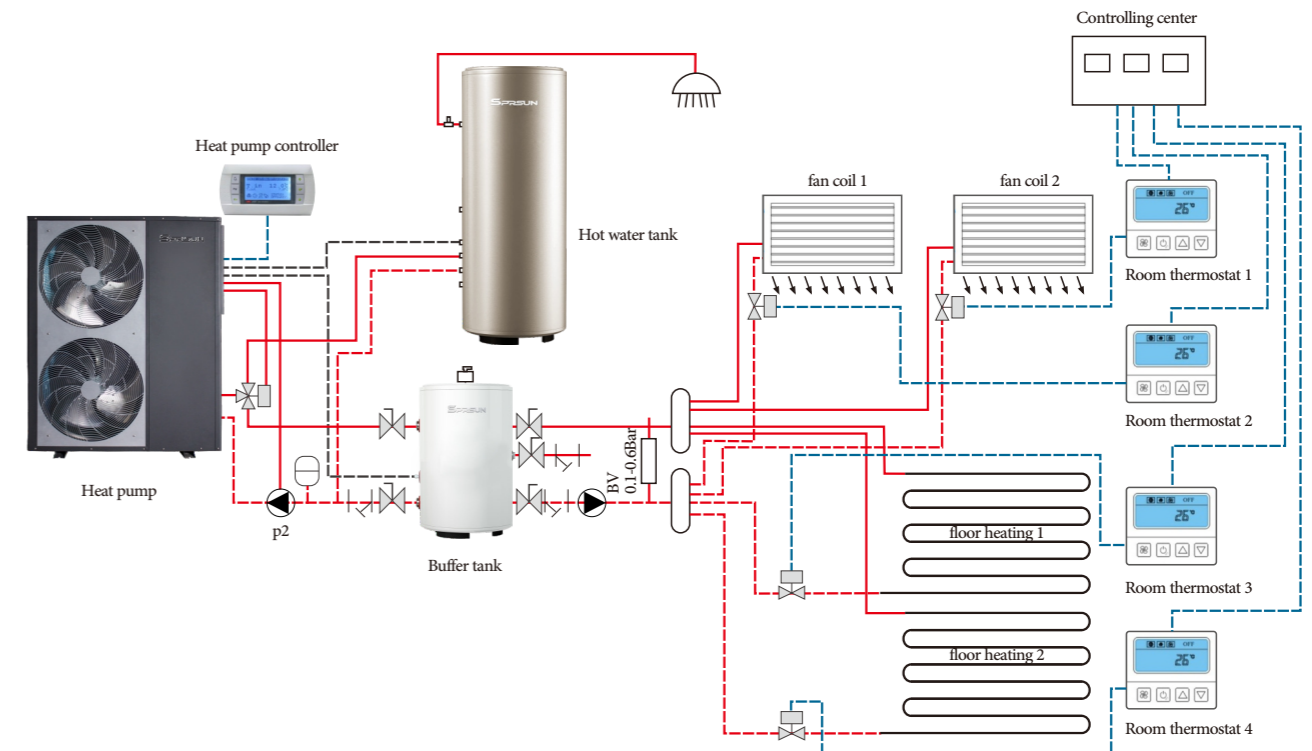


Air temp °C	COP kW/kW		
-25	2.25	2.09	1.50
-20	2.65	2.30	1.95
-15	3.12	2.50	1.80
-7	3.80	2.90	2.09
2	4.13	3.54	2.90
7	4.75	3.85	3.15
12	5.18	4.27	3.50
20	5.80	4.74	3.70
Hot water temp °C	35	45	55

Key Components



Installation Diagram



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

- Max. Heating Capacity : **6KW - 28KW**
- Max. Cooling Capacity : **5.5KW - 25.5KW**
- Multi-functions: **Hot Water, House Heating and Cooling**
- Ambient Temperature Range: **-30°C-45°C**

R32

-30°C

WiFi
WIFI Control

MAX COP
5.89



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

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 6KW 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.

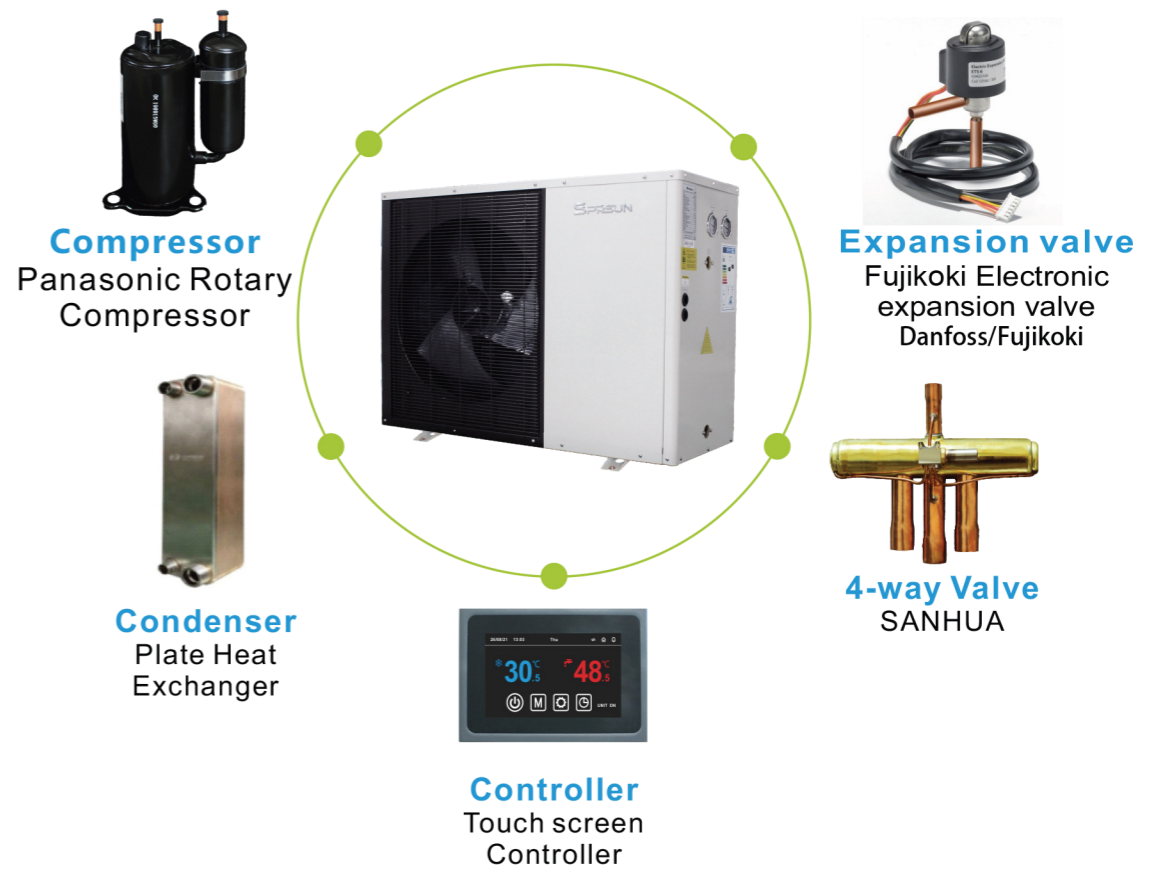
DC Inverter Air Source Heat Pumps

Specifications

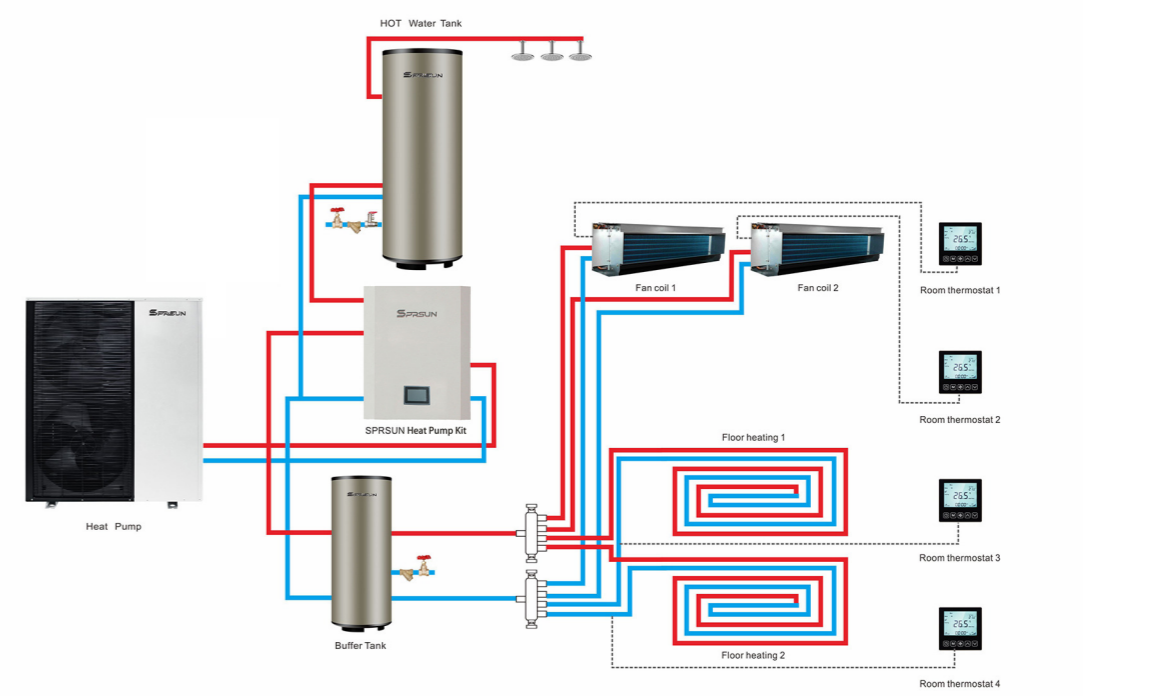
Unit Name	DC Inverter Air Source Heat Pumps (Monoblock Type)													
Model	CGK015V3L-B	CGK025V3L-B	CGK030V3L-B	CGK040V3L-B	CGK050V3L-B	CGK060V3L-B	CGK025V3L-B	CGK030V3L-B	CGK040V3L-B	CGK050V3L-B	CGK060V3L-B	CGK080V3L-B	CGK080V3L-B	CGK080V3L-B
Power Supply / Refrigerant	V1H2 Ph 220-240/50/1 - R32													
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 21.8 28													
C.O.P (A7°C/W35°C)	WW 4.45 4.56 4.41 4.61 4.71 4.61 4.56 4.42 4.62 4.72 4.62 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)	WW 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 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 20.9 26.9													
C.O.P (A7°C/W45°C)	WW 3.56 3.65 3.53 3.69 3.77 3.69 3.65 3.54 3.70 3.78 3.70 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)	WW 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 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 19.9 25.5													
E.E.R (A35°C/W18°C)	WW 3.45 3.54 3.42 3.58 3.65 3.58 3.54 3.43 3.59 3.66 3.59 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)	WW 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 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 14.0 18.0													
E.E.R (A35°C/W7°C)	WW 2.59 2.48 2.40 2.50 2.56 2.50 2.48 2.40 2.51 2.56 2.51 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)	WW 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 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 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 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 4.0													
Fuse or circuitbreaker	A 13A 20A 25A 32A 40A 40A 13A 13A 16A 20A 20A 20A 25A													
Compressor	Type - Quantity/System	Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1 Twin Rotary - 1												
Fan	Quantity	1 1 1 1 2 2 1 1 1 2 2 2 2												
	Airflow	m3/h 1500 2500 3000 3500 5000 5500 2500 3000 3500 5000 5500 7500												
	Rated power	W 30 80 100 120 200 210 80 100 120 200 210 250												
Water Side Heat Exchanger	Type	Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger Plate Heat Exchanger												
	Water Pressure Drop	kPa 15 18 20 21 23 25 18 20 21 23 25 25 25												
Allowable Water Flow	Piping Connection	inch G3/4" G1" G1" G1" G1" G1" G1" G1" G1" G1" G1" G1" G1" G1"												
	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 0.28 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												
机身尺寸 Net Dimension (LxDxH)	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												
纸箱包装外尺寸 Packing Dimension (LxDxH)	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												
平板包装外尺寸 Packing Dimension (LxDxH)	mm	1070*405*800 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 1200*540*1610												
净重 Net Weight	kg	59 78 88 105 124 124 78 88 105 124 124 150												
纸箱包装毛重 Gross Weight	kg	70 101 105 120 150 150 101 105 120 150 150 183												
平板包装毛重 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.

Key Components



Installation Diagram



MONOBLOCK DC INVERTER AIR SOURCE HEAT PUMPS

A+++ ERP Energy Level Tested by TUV.

- Max. Outlet Water Temperature: **60°C**
- Max. Heating Capacity: **9.5KW-32KW**
- Ambient Temperature Range: **-20°C-45°C**
- Multi-functions: **Hot Water, House Heating and Cooling**

-20°C

Max. COP:
5.65

SCOP:
4.88



CGK030V2 CGK-030V2
CGK040V2 CGK-040V2



CGK050V2 CGK060V2 CGK-050V2
CGK-060V2 CGK-080V2



CGK-100V2

Features



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.



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.



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.



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.



Intelligent Defrosting

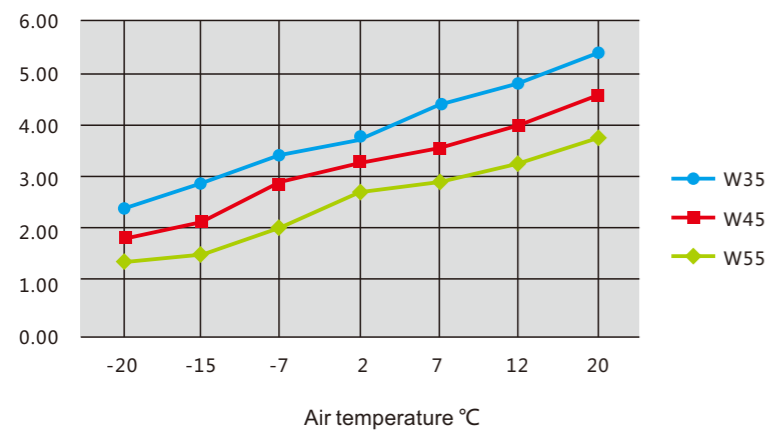
The smart defrosting technology makes optimal defrosting decisions to minimize energy consumption and improve customer satisfaction.

MONOBLOCK DC INVERTER AIR SOURCE HEAT PUMPS

Specifications

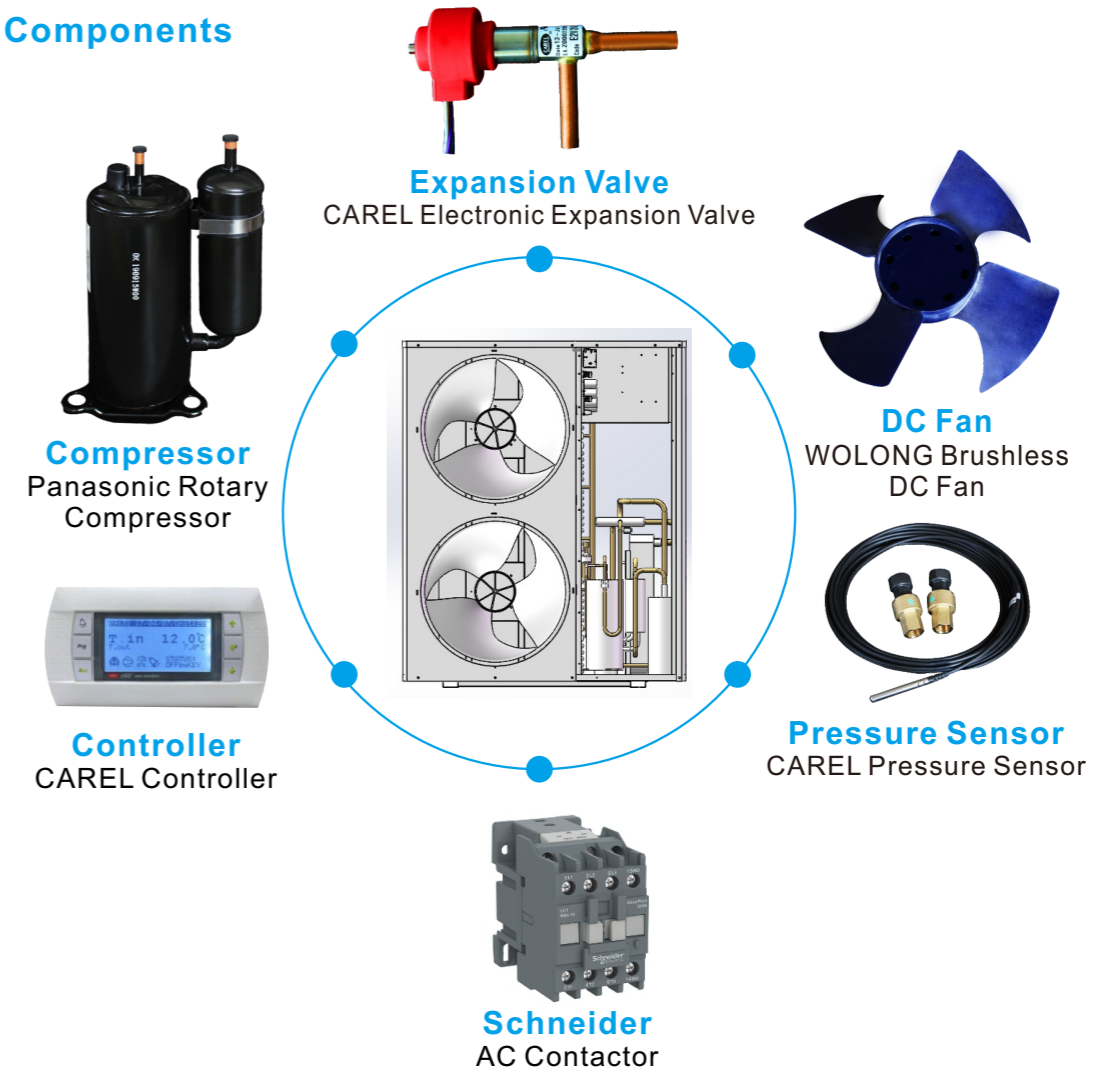
Model		CGK030V2	CGK040V2	CGK050V2	CGK060V2	CGK-030V2	CGK-040V2	CGK-050V2	CGK-060V2	CGK-080V2	CGK-100V2	
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R410A					380-420/50/3 - R410A					
Max. Heating Capacity (1)	KW	9.5	12.5	16.5	18.5	9.6	12.5	16.6	18.6	26	32	
C.O.P (1)	WW	4.45	4.45	4.48	4.39	4.45	4.52	4.52	4.42	4.52	4.42	
Heating Capacity Min./Max.(1)	KW	4.37/9.5	5.75/12.5	7.59/16.5	8.51/18.5	4.42/9.6	5.75/12.5	7.64/16.6	8.556/18.6	11.96/26	14.72/32	
Heating Power Input Min./Max.(1)	W	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)	WW	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. Cooling Capacity(4)	KW	6.7	8.8	11.6	13.0	6.8	8.8	11.7	13.1	18.3	22.6	
E.E.R(4)	WW	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	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	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)	WW	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	10.2	13.4	17.6	20.2	4.6	5.8	7.8	8.9	12.1	15.3	
Max Current	A	14.81	19.49	25.55	29.24	6.60	8.46	11.24	12.88	17.60	22.15	
Compressor	Type - Quantity/System	Twin Rotary - 1										
Fan	Quantity	1	1	2	2	1	1	2	2	2	1	
	Airflow	m3/h	3000	3500	5000	5500	3000	3500	5000	5500	7500	10000
	Rated power	W	100	110	200	210	100	110	200	210	250	500
Water Side Heat Exchanger	Type	Plate Heat Exchanger										
	Water Pressure Drop	kPa	20	22	23	25	20	22	23	25	23	25
	Piping Connection	Inch	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1 1/4"
Allowable Water Flow	Min./Rated/Max.	L/S	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	0.78 1.24 2.07	0.96 1.53 2.55
Noise Level	dB(A)	59	59	62	63	59	59	62	63	62	63	
Net Dimension(L×D×H)	mm	1110*475*810	1110*475*910	1110*475*1355	1110*475*1355	1110*475*810	1110*475*910	1110*475*1355	1110*475*1355	1237*480*1410	1000*1000*1855	
Packing Dimension(L×D×H)	mm	1220*540*970	1220*540*1070	1220*540*1400	1220*540*1400	1220*540*970	1220*540*1070	1220*540*1400	1220*540*1400	1300*540*1580	1220*540*1400	
Net Weight	Kg	88	98	124	124	88	98	124	124	200	300	
Gross Weight	Kg	116	126	161	161	116	126	161	161	220	320	
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

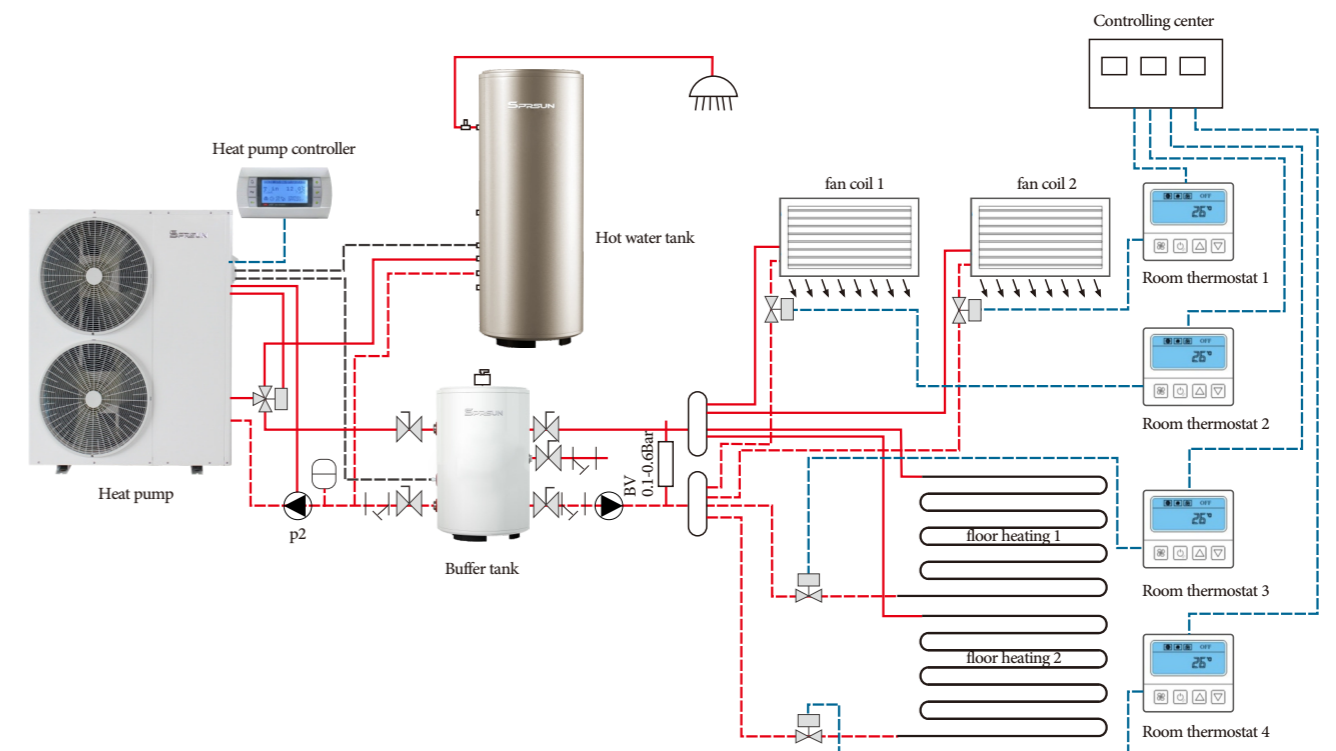


Air temp °C	COP kW/kW		
-20	2.48	1.87	1.35
-15	2.92	2.13	1.53
-7	3.44	2.92	2.10
2	3.74	3.32	2.72
7	4.45	3.60	2.96
12	4.85	4.00	3.28
20	5.43	4.60	3.77
Hot water temp °C	35	45	55

Key Components



Installation Diagram

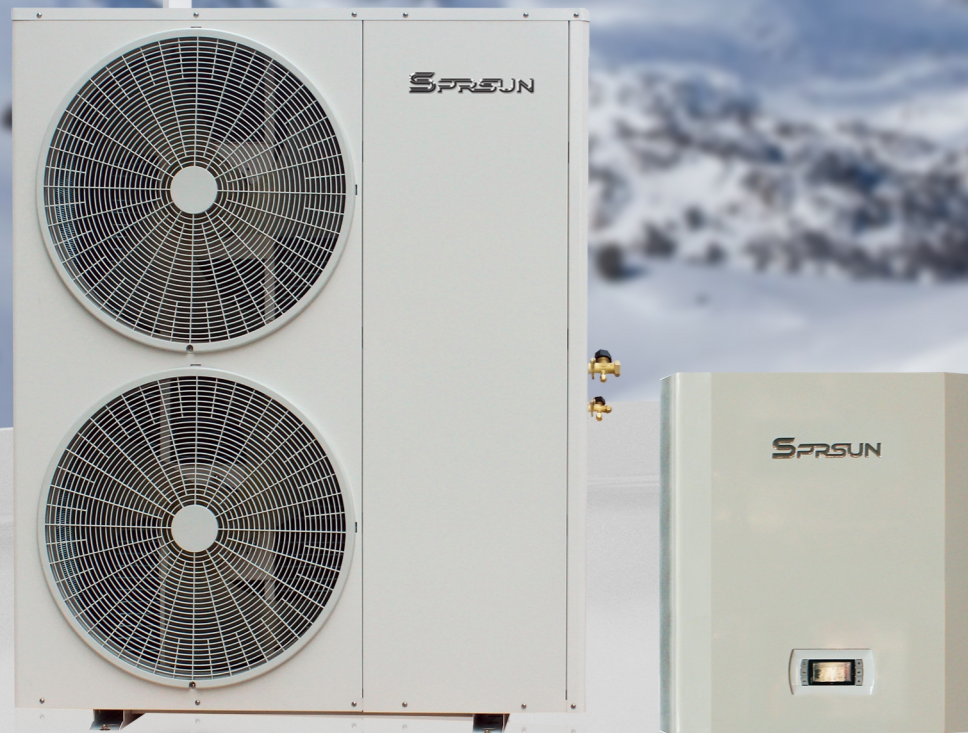


SPLIT EVI DC INVERTER AIR SOURCE HEAT PUMPS

- Max. Outlet Water Temperature: **60°C**
- Max. Heating Capacity: **9.6KW-18.9KW**
- Low Ambient Temperature: **-25°C to 45°C**
- Multi-functions: **Hot Water, House Heating and Cooling**

-25°C

Max. COP:
5.60



CGK030V2LS CGK-030V2LS



CGK050V2LS CGK060V2LS
CGK-050V2LS CGK-060V2LS

Features



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.



Anti-freezing Protection

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



Improved Heating Efficiency

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



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.



Reduced Defrosting Time

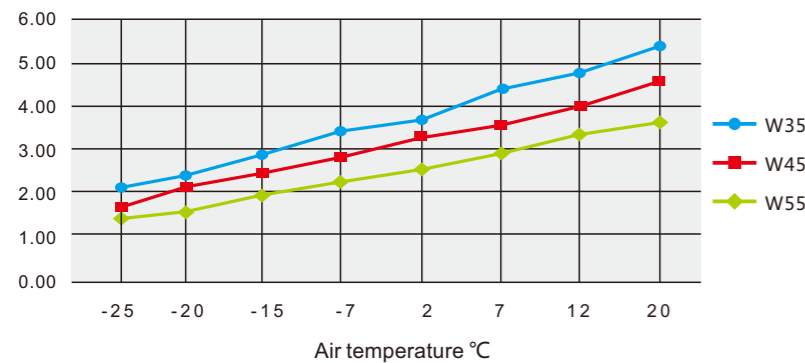
When the unit needs defrosting, it will use high frequency operation, which greatly reduces the defrosting time.

SPLIT EVI DC INVERTER AIR SOURCE HEAT PUMPS

Specifications

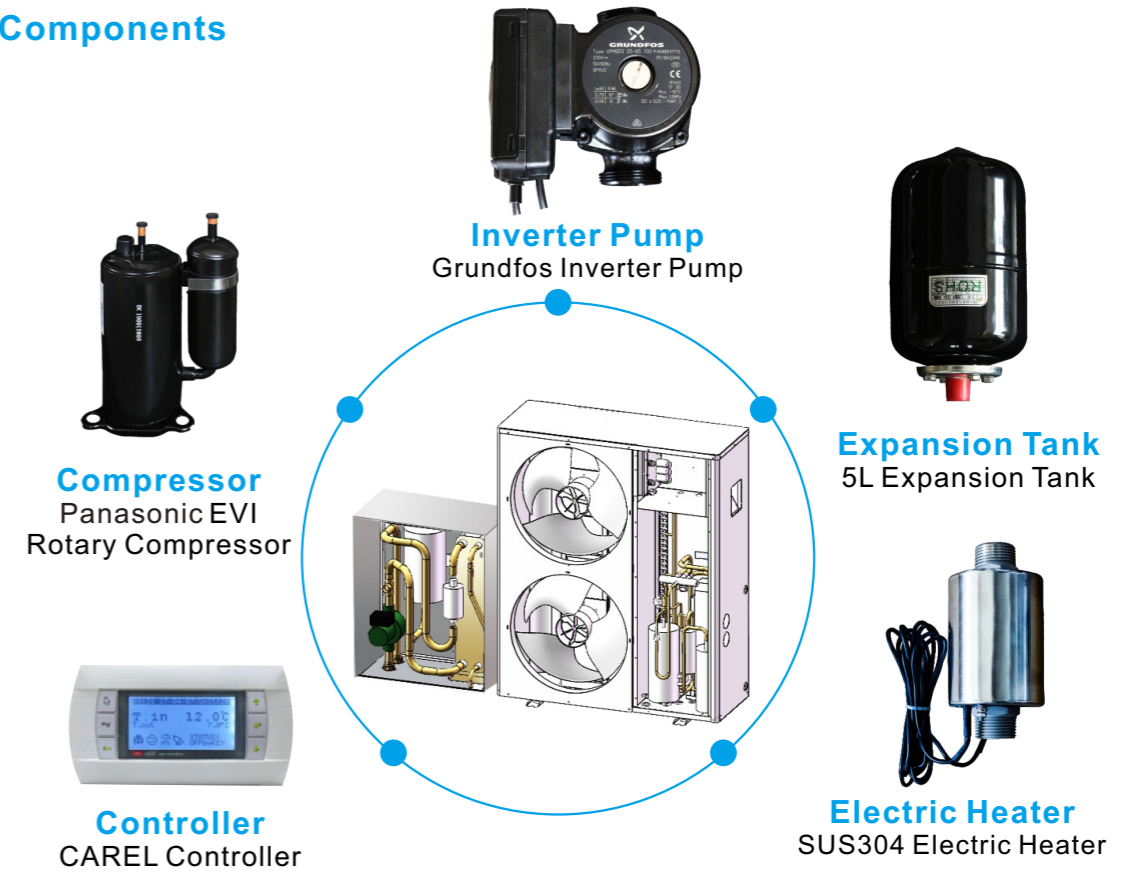
Model		CGK030V2LS	CGK050V2LS	CGK060V2LS	CGK-030V2LS	CGK-050V2LS	CGK-060V2LS													
Power Supply / Refrigerant	V/Hz/Ph	220-240/50/1 - R410A			380-420/50/3 - R410A															
Max. Heating Capacity (1)	kW	9.6	16.8	18.8	9.8	16.9	18.9													
C.O.P (1)	W/W	4.45	4.48	4.39	4.45	4.48	4.39													
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 Current	A	14.97	26.02	29.71	6.74	11.54	13.17													
Compressor	Type - Quantity/System	Twin Rotary - 1		Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1													
Fan	Quantity	1		2	2	1	2													
	Airflow	m3/h		3000	5000	5500	3000	5000												
	Rated power	W		100	200	210	100	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			5			5			5			5			
Electric Heater	kW	3			3			3			3			3			3			
Outdoor Unit Size (LxDxH)	mm	1100*475*810			1100*475*1355			1100*475*1355			1110*475*810			1110*475*1355			1110*475*1355			
Outdoor Packing Size (LxDxH)	mm	1235*540*970			1235*540*1400			1235*540*1400			1235*540*970			1235*540*1400			1235*540*1400			
Indoor Unit Size (LxDxH)	mm	550*325*650			550*325*650			550*325*650			550*325*650			550*325*650			550*325*650			
Indoor Packing Size (LxDxH)	mm	650*450*840			650*450*840			650*450*840			650*450*840			650*450*840			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

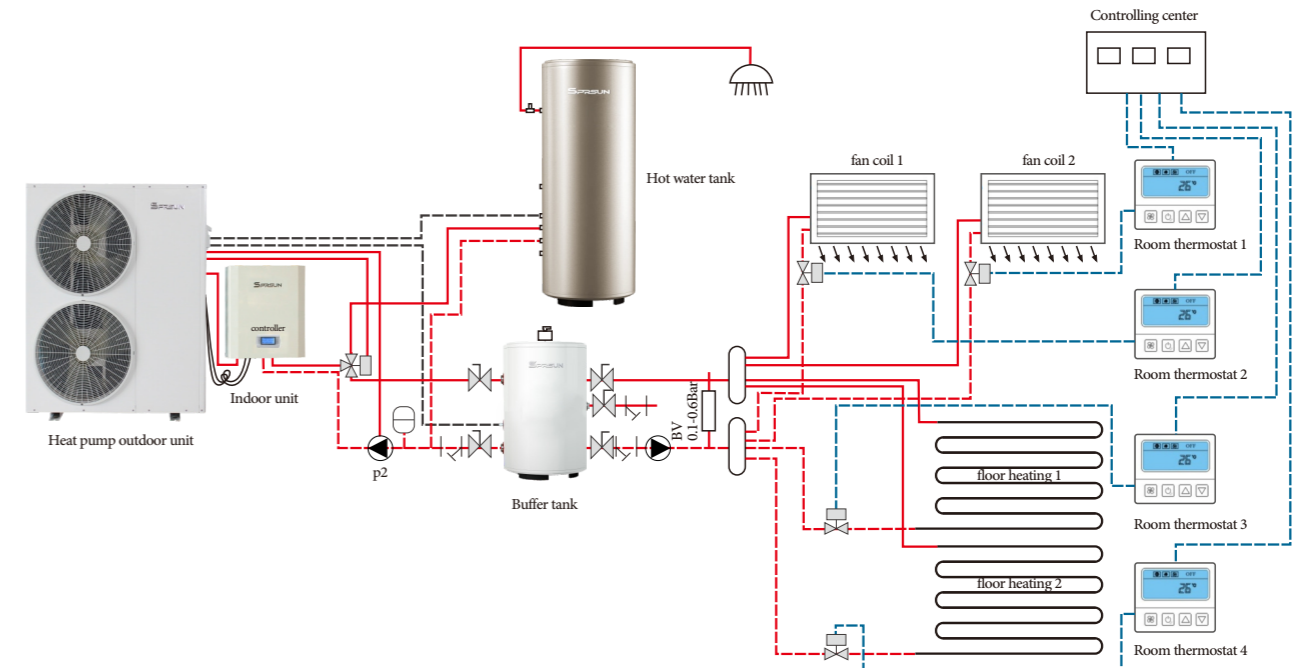


Air temp °C	COP kW/kW		
-25	2.11	1.71	1.56
-20	2.48	2.13	1.77
-15	2.92	2.48	1.97
-7	3.44	2.82	2.24
2	3.74	3.32	2.49
7	4.45	3.60	2.96
12	4.85	4.00	3.28
20	5.43	4.60	3.77
Hot water temp °C	35	45	55

Key Components



Installation Diagram



R32 DC INVERTER SWIMMING POOL HEAT PUMPS

- Max. Heating Capacity: **4.5KW-16KW**
- Max. Cooling Capacity: **2.5KW-8.8KW**
- Functions: **Domestic Pool Water Heating/Cooling**
- Setting Range: Heating **18°C ~ 35°C**; Cooling **32°C ~ 15°C**

R32

Max. COP:
15.04

WiFi 
WIFI Control
(Optional)



CGY015V3 CGY020V3 CGY025V3 CGY030V3 CGY040V3 CGY050V3

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.



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,



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.



Super 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.



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.

R32 Full Inverter Swimming Pool Heat Pumps

Specifications

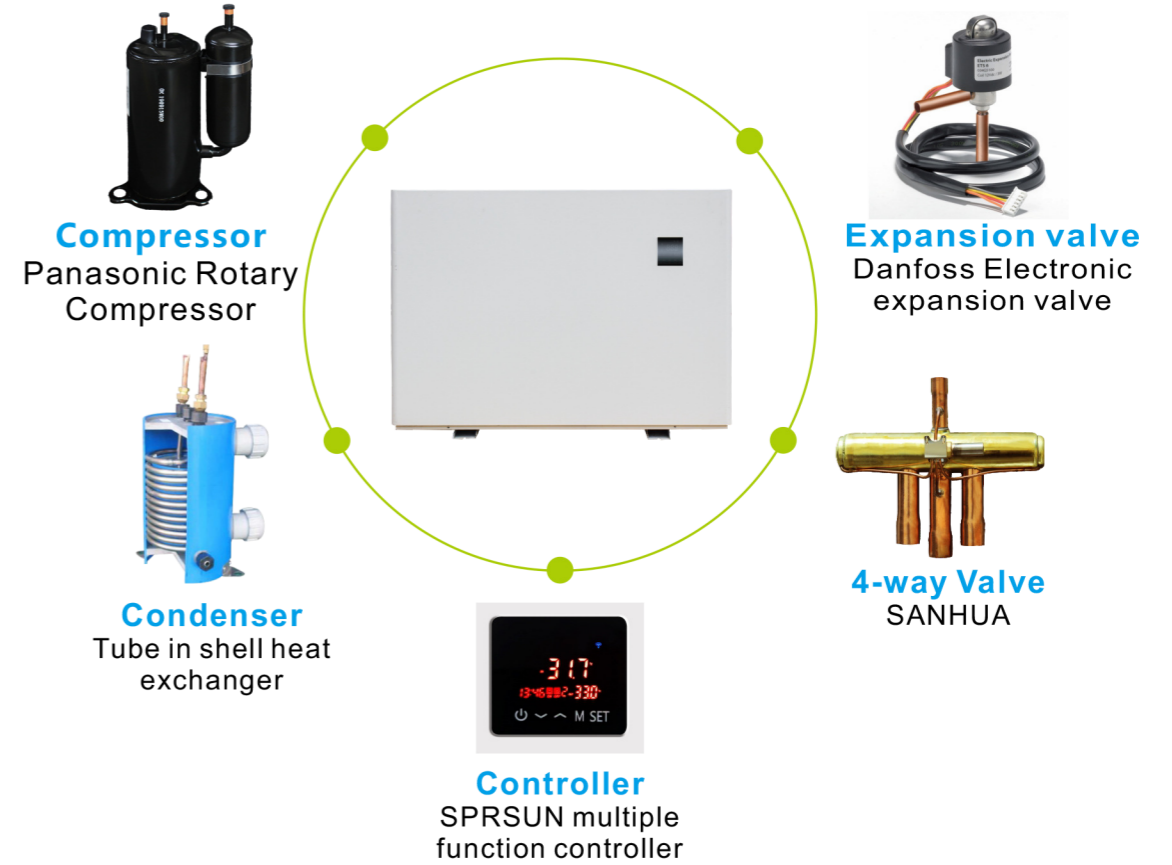
Unit Name	SPRSUN DC Inverter Pool Heat Pump												
Model	CGY015V3	CGY020V3	CGY025V3	CGY030V3	CGY035V3	CGY040V3	CGY050V3	CGY060V3	CGY060V3	CGY060V3	CGY080V3	CGY100V3	CGY100V3
Advised Pool Volume	m3	15-20	20-30	25-40	30-60	40-80	50-100	50-100	60-120	50-100	60-120	80-140	100-160
Power Supply	V/Hz/Ph	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	380-420/50/3	380-420/50/3	380-420/50/3	380-420/50/3
Refrigerant		R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
Max. Heating Capacity (1)	KW	6.5	9	10.5	14	17	23	28	30	28	32	39	55
C.O.P (1)	WW	6.9	7.52	7.45	7.41	7.28	7.32	7.05	7.04	7.05	7.04	6.98	7.26
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	8.68 / 28	9.92 / 32	12.09 / 39	55
Heating Power Input Min./Max.(1)	W	146 / 942	186 / 1197	218 / 1409	293 / 1889	362 / 2335	487 / 3142	616 / 3972	661 / 4261	616 / 3972	705 / 4545	866 / 5587	7576
C.O.P Min./Max.(1)	WW	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	7.05 / 14.10	7.04 / 14.08	6.98 / 13.96	14.52
Max. Heating Capacity(2)	KW	4.7	6.5	7.6	10.1	12.2	16.6	20.2	21.6	20.2	23.0	28.1	39.6
C.O.P (2)	WW	4.80	5.23	5.18	5.15	5.06	5.09	4.90	4.89	4.90	4.89	4.85	5.05
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	6.45 / 20.16	7.37 / 23.04	8.99 / 28.08	39.60
Heating power input Min./Max.(2)	W	197 / 976	251 / 1240	295 / 1460	396 / 1957	489 / 2419	658 / 3255	832 / 4114	893 / 4415	832 / 4114	952 / 4709	1170 / 5788	7848
C.O.P Min./Max.(2)	WW	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	4.90 / 7.76	4.89 / 7.74	4.85 / 7.68	7.99
Max. Cooling Capacity(3)	KW	3.6	5.0	5.8	7.7	9.4	12.7	15.4	16.5	15.4	17.6	21.5	30.3
E.E.R (3)	WW	3.12	3.40	3.37	3.35	3.29	3.31	3.18	3.18	3.18	3.18	3.15	3.28
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	7.08 / 15.40	8.10 / 17.60	9.87 / 21.45	30.25
Cooling Power Input Min./Max.(3)	W	352 / 1147	447 / 1457	526 / 1716	705 / 2300	872 / 2843	#### / 3825	#### / 4835	#### / 5188	#### / 4835	#### / 5534	2086 / 6803	9223
E.E.R Min./Max.(3)	WW	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	3.18 / 4.78	3.18 / 4.77	3.15 / 4.73	4.92
Rated Current	A	4.5	5.7	6.7	9.0	11.2	15.0	19.0	20.4	8.4	9.6	11.8	16.0
Max Current	A	6.5	8.3	9.8	13.1	16.2	21.80	27.55	29.96	12.15	13.91	17.10	23.18
Max Power Input	KW	1.34	1.70	2.00	2.68	3.32	4.46	5.64	6.05	5.64	6.45	7.93	10.76
Compressor	Type - Quantity/System	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1
Fan	Quantity	1	1	1	1	1	1	1	1	1	1	1	1
	Airflow	m3/h	1500	2000	2400	3000	3000	5000	5000	5500	5000	5500	10000
	Rated power	W	33	36	40	80	80	200	200	210	200	210	600
Water Side Heat Exchanger	Type	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC	Titanium Tube in PVC
	Water Pressure Drop	kPa	8	9	9.5	10	11	15	20	22	20	22	25
	Piping Connection	mm	φ50	φ50	φ50	φ50	φ50	φ50	φ50	φ50	φ50	φ50	φ65
Noise Level	dB(A)	41	43	45	49	52	55	58	60	58	60	62	66
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*510*1000	1090*510*1000	1090*550*1100	950*900*1950
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*1120	1120*540*1120	1120*540*1230	1020*960*2125
Net Weight	kg	48	57	64	88	92	105	124	135	124	130	150	260
Gross Weight	kg	50	60	67	93	97	110	135	145	163	140	176	295

Note: (1) Performance Condition: Air 27°C/Water 26°C/Humidity 80%

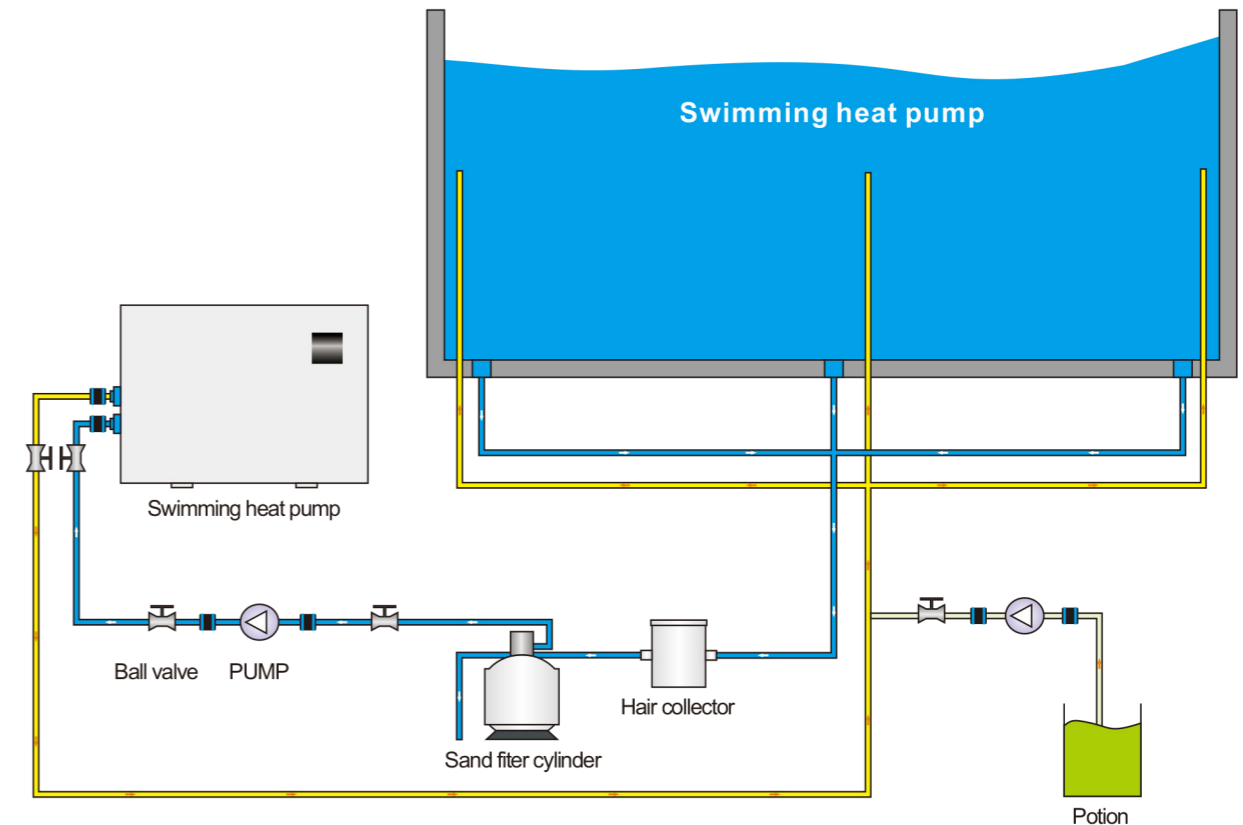
(2) Performance Condition: Air 15°C/Water 26°C/Humidity 70%

(3) Performance condition: Air 35°C/Water 28°C/Humidity 64%

Key Components

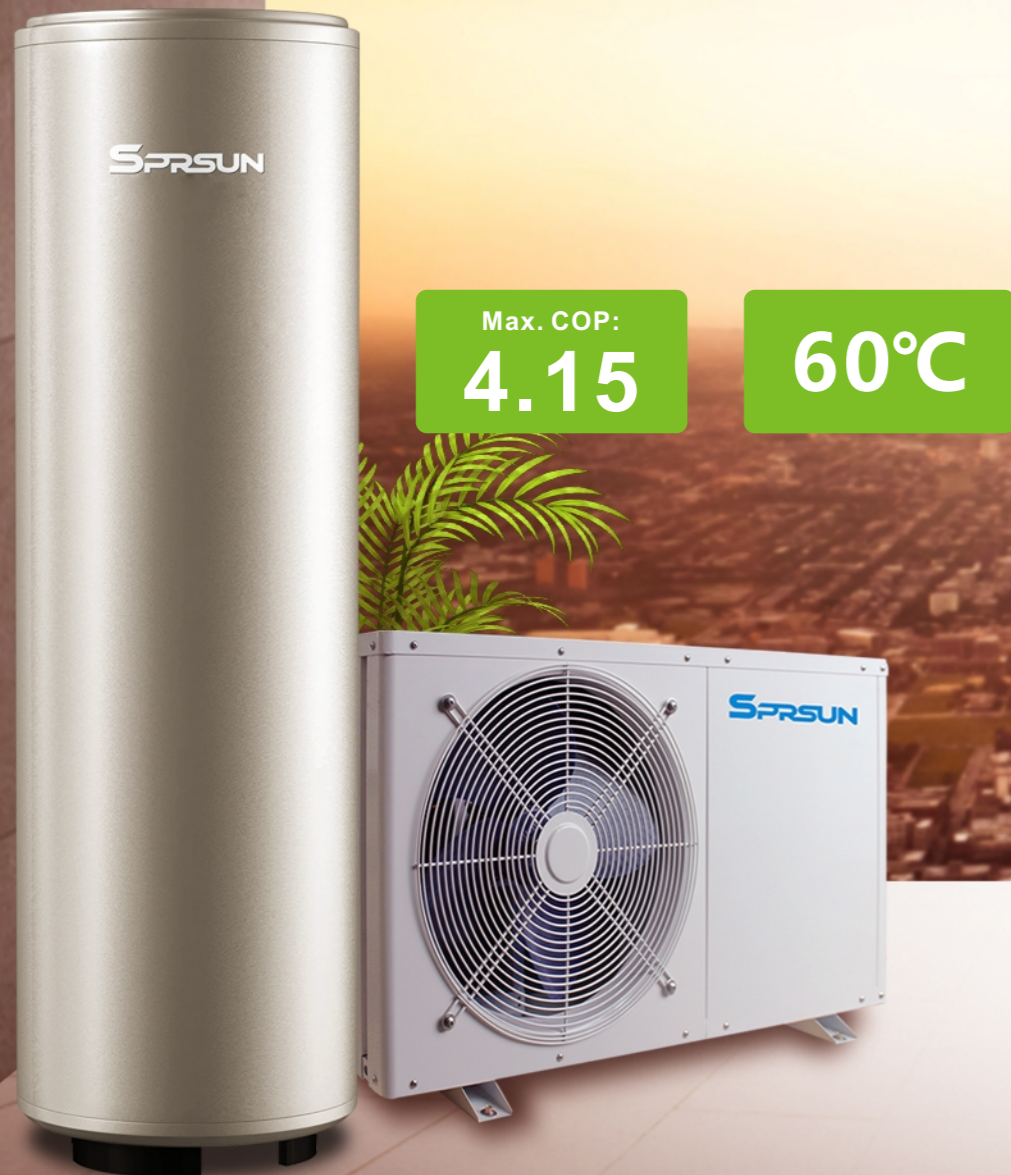


Installation Diagram



DOMESTIC AIR TO WATER HEAT PUMPS

- Max. Outlet Water Temperature: **60°C**
- Working Ambient Temperature: **-10°C to 45°C**
- Heating Capacity: **3.8KW-9.2KW**
- Designed for Household Application
- Including Built-in Water Pump
- Lower Noise Level: **42DB-45DB**
- Refrigerant: **R410A**



CGKS-3.5 CGKS-5.5 CGKS-7 CGKS-9

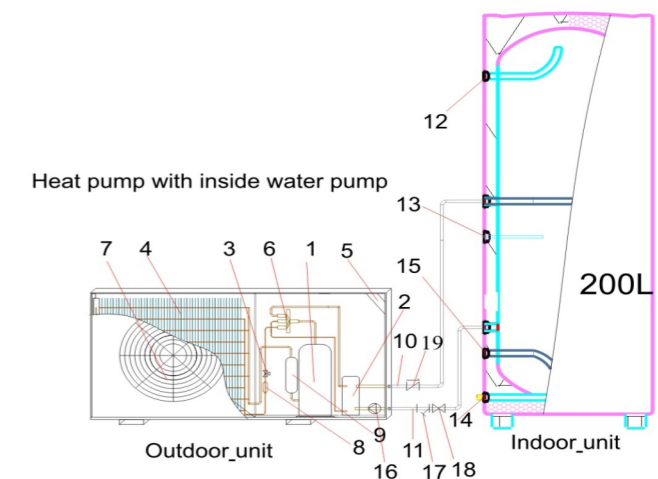
Specifications

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	9.2
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	198
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	Panasonic

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

Installation Diagram

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



TOP DISCHARGE COMMERCIAL AIR TO WATER HEAT PUMPS

- Max. Outlet Water Temperature: **60°C**
- Working Ambient Temperature: **-10°C to 45°C**
- Heating Capacity: **9.5KW-88KW**
- Linkage Function: **external ON/OFF signal**
- Automatic and Forced Defrosting
- Anti-freezing Function
- Electric Heater Back Up
- Multiple Protections

WiFi
WiFi Control
(Optional)

60°C



CGK/D-9 CGK/D-12 CGK/D-18

CGK/D-36 CGK/D-42

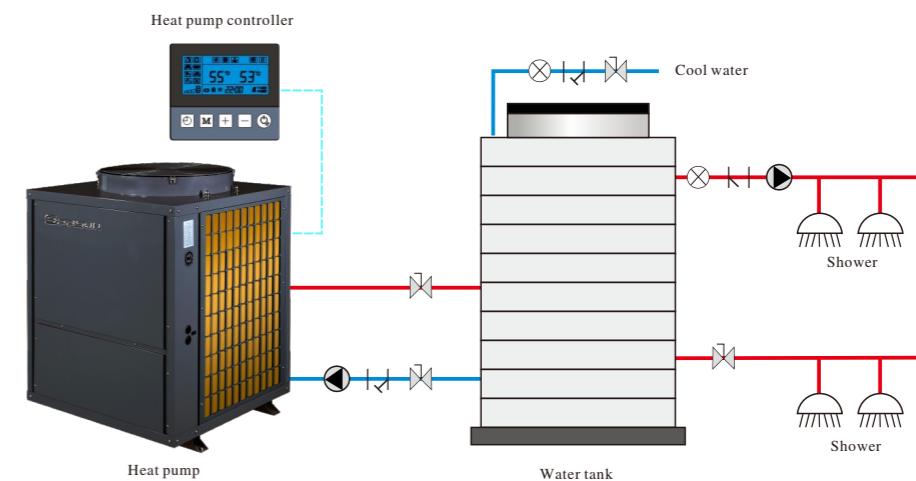
CGK/D-52 CGK/D-72 CGK/D-95

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	1	1	1	1	1	2	2	2	2	2	
Condenser		Tube in shell heat exchanger											
Water flow	L/h	1815	2637	3344	2637	3535	4681	7070	8598	9936	13758	16815	
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	482	582	
Gross weight	kg	101	106	150	106	150	158	268	306	320	506	611	
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	1500*800*1515	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	1580*880*1665	1940*1120*2180	2080*1200*2280	
Compressor brand/quantity		Copeland*1											

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

Installation Diagram



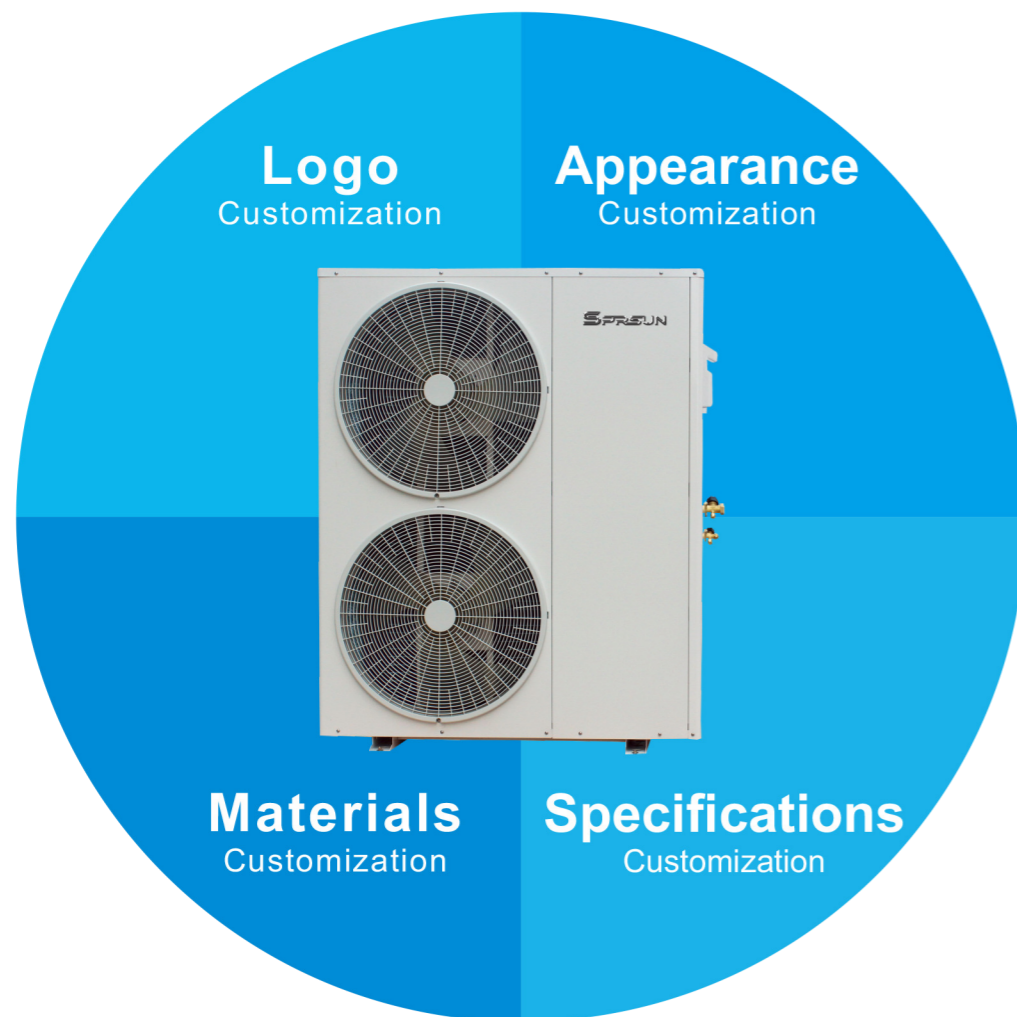
SERVICE & SUPPORT

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

24-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.



PROJECTS WORLDWIDE

SPRSUN IS AROUND YOU NO MATTER WHAT SEASONS!



GALLERY

