SPRSUN

A Professional Heat Pump Manufacturer Since 1999

COMMERCIAL HIGH-EFFICIENCY ATW HEAT PUMPS

HEATING /COOLING / HOT WATER



CE ErP Energy-related Products Bundesamt für Wirtschaft und Ausfuhrkontrolle MCS CERTIFIED UKCA



Greenergy Series

Commercial ATW Heat Pumps

Factories

Resorts

Large Commercial Buildings

Hotels

FEATURES OF COMMERCIAL MONOBLOCK HEAT PUMP

- Heating + Cooling + Hot Water
- Heating capacity: 50kW /100kW
- High Energy Efficiency
- Full DC Inverter Technology
- ECO R290 Refrigerant
- -25°C Stable Running Ambient
- Intelligent Defrosting
- 5-inch Color Touchscreen
- IoT Cloud Platform
- Quiet Operation
- Built-in Wifi Module

A TAILORED ALL-IN-ONE SOLUTION FOR LARGE-SCALE BUILDINGS



Remote Real -Time Control

User App (Customizable)

Dealer App (Customizable)

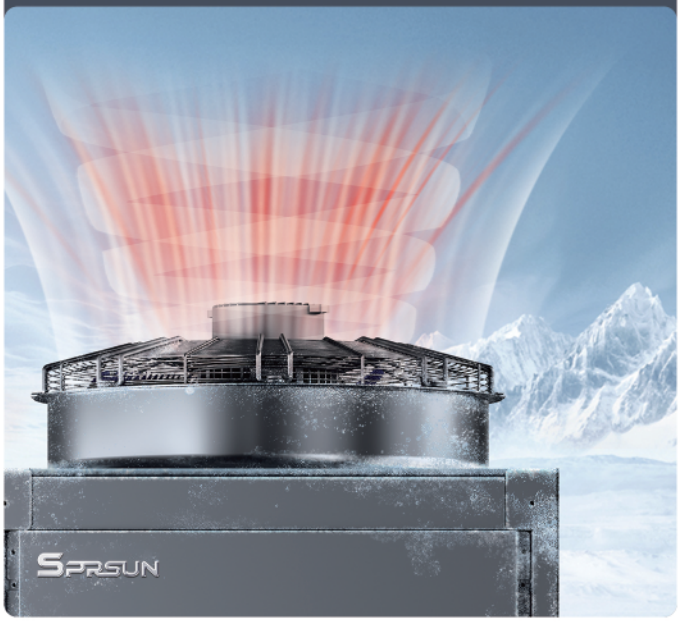
Live Energy **Monitoring**

Historical **Consumption Tracking**

OTA Updates – Latest Features with One Click

ULTRA-LOW TEMPERATURE UNINTERRUPTED OPERATION

- Wide Operating Range: -25°C to 45°C
- Intelligent Defrost

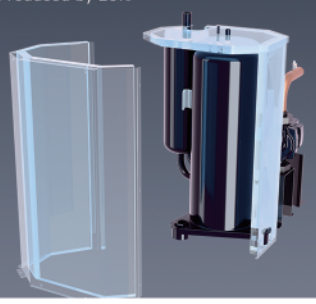


75°C MAX OUTLET WATER TEMP.



SILENT CABIN TECH.

Noise reduced by 20%



CERTIFIED RELIABLE R290 SYSTEM



- Safety Structure: Built-in Air Relief Valve, Pressure Relief Valve
- Anti-Explosion Parts
- Real-Time Leak Detection (Optional)

R290: Future-Proof Refrigerant (GWP=3 ODP=0)

HIGH-END COMPONENTS: ASSURED RELIABILITY



FUJIKOKI EEV

▲±1% Flow Accuracy
▲ 0.8s Response Time



HITACHI DC INVERTER COMPRESSOR

▲Stable Operation & High Efficiency



SENSATA PRESSURE SENSORS (HI/LO)

▲ ±0.5% FS Accuracy
▲ Real-time Safeguarding





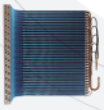
BRAND DC INVERTER MOTOR

▲ Infinite Speed Control
▲ 0% Start/Stop Loss



5-INCH COLOR TOUCHSCREEN

▲ 25 Languages



HYDROPHILIC FINNED COIL

▲ Corrosion Resistant
▲ Reduces Frost Build-Up
▲ Improves Heat Transfer Efficiency by 30%

5 STRICT QC CONTROL:

Design | Incoming | Production | Tube Joints | Assembly | Final (Full-Process Refrigerant Leak Checks)



50kW

CGK-151V4-B



8-Unit Cascade → 400kW Total

Centralized Control System

Intelligent Defrost
(Zero Energy Waste)

100kW

CGK-300V4-B



16-Unit Cascade → 1600kW

Dual Redundant Control ™

Zero-Downtime Defrost
(Dedicated Air Duct Design)

SPECIFICATION

Model			CGK-151V4-B			CGK-300V4-B		
Power Supply		V/Hz/Ph	380-420/50/3					
Max. Heating Capacity (A7°C/W35°C)		kW	50			100		
C.O.P (A7°C/W35°C)		W/W	3.80			3.71		
Heating Capacity Min./Max.(A7°C/W35°C)		kW	14.90	/	50.00	29.50	/	100.00
Heating Power Input Min./Max.(A7°C/W35°C)		W	2992	/	13158	6008	/	26954
C.O.P Min./Max.(A7°C/W35°C)		W/W	3.8	/	4.98	3.71	/	4.91
Max. Heating Capacity(A7°C/W45°C)		kW	47.24			92.00		
C.O.P (A7°C/W45°C)		W/W	3.35			3.15		
Heating Capacity Min./Max.(A7°C/W45°C)		kW	14.23	/	47.24	27.60	/	92.00
Heating power input Min./Max.(A7°C/W45°C)		W	3621	/	14101	7059	/	27711
C.O.P Min./Max.(A7°C/W45°C)		W/W	3.35	/	3.93	3.32	/	3.91
Max. Cooling Capacity(A35°C/W18°C)		kW	38.50			79.30		
E.E.R (A35°C/W18°C)		W/W	3.26			3.42		
Cooling Capacity Min./Max.(A35°C/W18°C)		kW	12.36	/	38.50	24.58	/	79.30
Cooling Power Input Min./Max.(A35°C/W18°C)		W	3314	/	11810	6626	/	23187
E.E.R Min./Max.(A35°C/W18°C)		W/W	3.26	/	3.73	3.42	/	3.71
Max. Cooling Capacity(A35°C/W7°C)		kW	31.40			65.00		
E.E.R(A35°C/W7°C)		W/W	2.64			2.85		
Cooling Capacity Min./Max.(A35°C/W7°C)		kW	10.18	/	31.40	19.50	/	65.00
Cooling Power Input Min./Max.(A35°C/W7°C)		W	2925	/	11894	5540	/	22807
E.E.R Min./Max.(A35°C/W7°C)		W/W	2.64	/	3.48	2.85	/	3.52
Max Power Input		kW	20.50			41.00		
Max Current		A	31.40			62.80		
Wire diameter		mm^2	10.0			16.0		
Fuse or circuitbreakerer		A	40A			80A		
Compressor		Brand	HITACHI					
Refrigerant		/	R290					
Fan	Type	/	DC					
	Quantity	/	1			2		
	Airflow	m3/h	23000			32000		
	Rated Fan Speed	RPM	850			900		
	Rated power	W	1700			2400		
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger					
	Water Pressure Drop	kPa	60			63		
	Piping Connection	Inch	G1.5"			G2.5"		
Allowable Water Flow	Min./Rated./Max.	L/S	1.49	2.39	3.98	2.99	4.78	7.96
Noise Level (Power Pressure)		dB(A)	68			78		
IP Class		/	IPX4					
Net Dimension(L×D×H)		mm	1187*1087*1680			2200*1100*1966		
Splint packing Dimension(L×D×H)		mm	1242*1107*1830			2280*1180*2116		
Net Weight		kg	375			665		
Splint gross Weight		kg	466			756		
Seasonal space heating energyefficiency classes: (According (EU)No 811/2013 Table 2)		--	A+++					

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;

The information in this document is just for reference. Since the continuous improvement and control in the production process, the information contained in this document may be subject to change. Please refer to the nameplate on the machine for model specifications.



Greenergy Series

For Light Commercial Heating Cooling & Hot Water

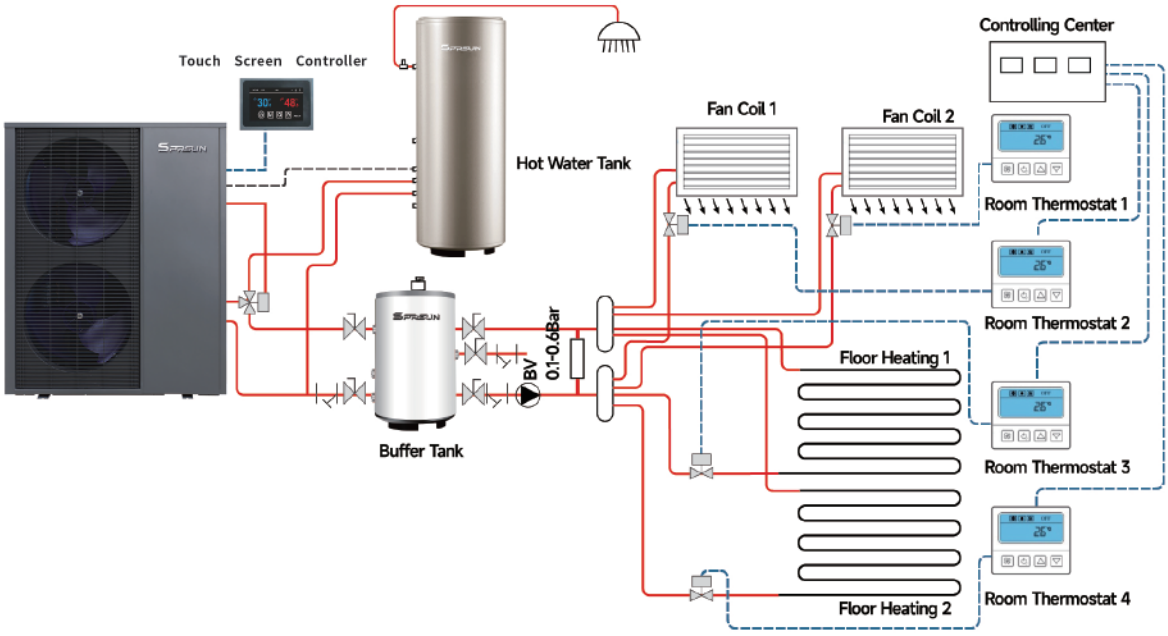
ERP A+++	75°C	-25°C				
High Energy Efficiency	Max. Outlet Water Temperature	Stable Running Ambient	Reduced Noise	Intelligent Defrosting	IoT Cloud Platform	KEYMARK Certification







INSTALLATION DIAGRAM



SPECIFICATION

Model			CGK-080V4-B			CGK-100V4-B		
Power Supply		V/Hz/Ph	380-420/50/3					
Max. Heating Capacity (A7°C/W35°C)		kW	25			30		
C.O.P (A7°C/W35°C)		W/W	3.95			3.85		
Heating Capacity Min./Max.(A7°C/W35°C)		kW	8.15	/	25.00	10.05	/	30.00
Heating Power Input Min./Max.(A7°C/W35°C)		W	1630	/	6329	2072	/	7792
C.O.P Min./Max.(A7°C/W35°C)		W/W	3.95	/	5.00	3.85	/	4.85
Max. Heating Capacity(A7°C/W45°C)		kW	24.11			28.05		
C.O.P (A7°C/W45°C)		W/W	3.42			3.36		
Heating Capacity Min./Max.(A7°C/W45°C)		kW	7.42	/	24.11	9.05	/	28.05
Heating power input Min./Max.(A7°C/W45°C)		W	1878	/	7050	2363	/	8348
C.O.P Min./Max.(A7°C/W45°C)		W/W	3.42	/	3.95	3.36	/	3.83
Max. Cooling Capacity(A35°C/W18°C)		kW	20.10			23.90		
E.E.R (A35°C/W18°C)		W/W	3.23			3.28		
Cooling Capacity Min./Max.(A35°C/W18°C)		kW	8.14	/	20.10	9.29	/	23.90
Cooling Power Input Min./Max.(A35°C/W18°C)		W	2171	/	6223	2497	/	7287
E.E.R Min./Max.(A35°C/W18°C)		W/W	3.23	/	3.75	3.28	/	3.72
Max. Cooling Capacity(A35°C/W7°C)		kW	17.00			19.20		
E.E.R(A35°C/W7°C)		W/W	2.56			2.64		
Cooling Capacity Min./Max.(A35°C/W7°C)		kW	7.20	/	17.00	8.20	/	19.20
Cooling Power Input Min./Max.(A35°C/W7°C)		W	2087	/	6641	2391	/	7273
E.E.R Min./Max.(A35°C/W7°C)		W/W	2.56	/	3.45	2.64	/	3.43
Max Power Input		kW	11.00			13.50		
Max Current		A	16.70			20.50		
Wire diameter		mm^2	6.0					
Fuse or circuitbreakerer		A	25A			32A		
Compressor		Brand	HIGHLY					
Refrigerant		/	R290					
Fan	Type	/	DC					
	Quantity	/	2					
	Airflow	m3/h	11000					
	Rated Fan Speed	RPM	900					
	Rated power	W	250					
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger					
	Water Pressure Drop	kPa	30			40		
	Piping Connection	Inch	G1.2"					
Allowable Water Flow	Min./Rated./Max.	L/S	0.75	1.19	1.99	0.90	1.43	2.39
Noise Level (Power Pressure)		dB(A)	63			64		
IP Class		/	IPX4					
Net Dimension(L×D×H)		mm	1249*509*1558					
Splint packing Dimension(L×D×H)		mm	1340*575*1715					
Net Weight		kg	220			231		
Splint gross Weight		kg	262			/		
Seasonal space heating energyefficiency classes: (According (EU)No 811/2013 Table 2)		--	A+++					

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;

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www.sprsun.com

Guangzhou SPRSUN New Energy Technology Development Co., Ltd.

No.15 Tangxi Road, Yinsha Industrial Park, Xintang, Zengcheng ,
Guangzhou. Guangdong, China, 511338
Tel: 0086-20-8218 1867 Mobile/WhatApp: 0086-189 3398 5692
Email: inquiry@sprsun.com

e-Catalogue