

SPRSUN

A Professional Heat Pump Manufacturer Since 1999

COMMERCIAL HIGH-EFFICIENCY ATW HEAT PUMPS

HEATING / COOLING / HOT WATER



Bundesamt
für Wirtschaft und
Ausfuhrkontrolle





50kW 100kW

Greenergy Series

Commercial ATW Heat Pumps

Hotels

Resorts

Large Commercial Buildings

Factories



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

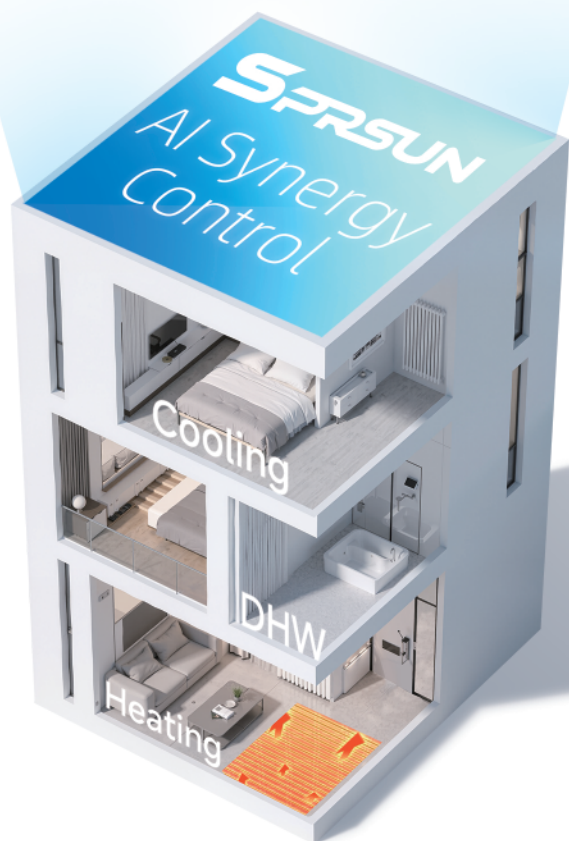


Quiet
Operation



Built-in
Wifi Module

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



Remote Real
-Time Control

User App
(Customizable)

Dealer App
(Customizable)

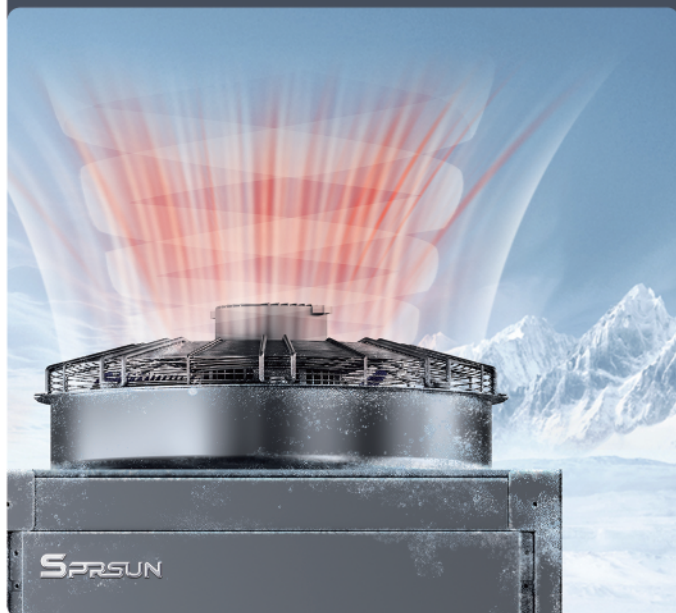
Live Energy
Monitoring

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

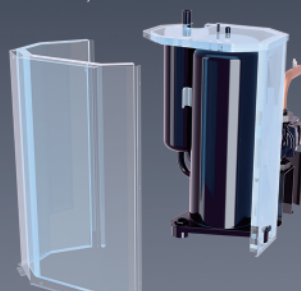


75°C MAX OUTLET WATER TEMP.



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)



Bundesamt
für Wirtschaft und
Ausfuhrkontrolle



HIGH-END COMPONENTS: ASSURED RELIABILITY



**HITACHI
DC INVERTER
COMPRESSOR**

- ▲ Stable Operation &
High Efficiency



**BRAND DC
INVERTER MOTOR**

- ▲ Infinite Speed Control
- ▲ 0% Start/Stop Loss



FUJIKOKI EEV

- ▲ ±1% Flow Accuracy
- ▲ 0.8s Response Time



**SENSATA PRESSURE
SENSORS (HI/LO)**

- ▲ ±0.5% FS Accuracy
- ▲ Real-time Safeguarding



**HYDROPHILIC
FINNED COIL**

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



**5-INCH COLOR
TOUCHSCREEN**

- ▲ 25 Languages



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		mm²	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;

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Greenenergy Series

For Light Commercial Heating Cooling & Hot Water



High Energy Efficiency



Max. Outlet Water Temperature



Stable Running Ambient



Reduced Noise



Intelligent Defrosting



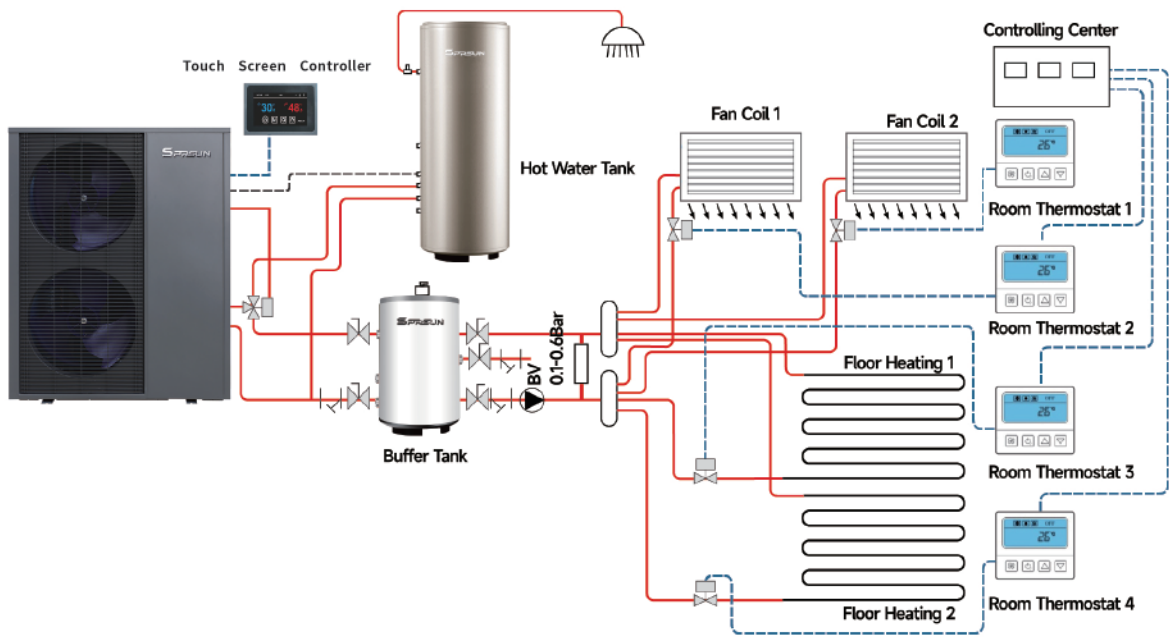
IoT Cloud Platform



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 circuitbreaker		A	25A			32A		
Compressor		Brand				HIGHLY		
Refrigerant		/				R290		
Fan	Type	/				DC		
	Quantity	/				2		
	Airflow	m ³ /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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