

SPRSUN

A Professional Heat Pump Manufacturer Since 1999

BUILD YOUR SMART HOME

WHOLE HOUSE HEATING + COOLING + HOT WATER



RoHS

CE



UK
CA

AIT



CAREL CONTROL SYSTEM PACKAGE

Air to Water Heating, Cooling & DHW

GreenenergyPro Series

R290 DC Inverter Air Source Heat Pumps



ClimaWise Series

R32 DC Inverter Air Source Heat Pumps



Easy Installation Solution

Easy AquaKit



Integral Hydronic Tank



Hot Water and Buffer Tanks

Water Tank

60L 100L 150L 200L 260L 320L 500L 1000L available



Other

FAN COIL



ONE-STOP SOLUTION TO MEET VARIOUS RESIDENTIAL NEEDS

CAREL CONTROL SYSTEM





These two heat pump series deliver smarter, more efficient heating, cooling, and domestic hot water (DHW) solutions for residential use. Their key advantages are exceptional safety, reliability, and integrated smart technology.



Multiple Modes for Comfortable Use



High Energy Efficiency



Stable Running Ambient



CAREL Touch Screen Controller



Reduced Noise



IoT Cloud Platform



KEYMARK Certification



SG Ready

SMART CONTROL SYSTEM

- AI Defrost
- Energy Consumption Tracking (Built-in Energy Consumption Statistics Module)
- Remote Control & Monitoring via APP

HIGH RELIABILITY

- R290 Safety Structure- Safety Partition Chamber
- R290 Explosion-proof Accessories



ADVANCED NOISE REDUCTION TECHNOLOGY

- Innovative Acoustic Isolation Compartment Tech
- Composite Sound-Insulating Materials
- Vibration-Dampening Design



ADVANTAGES OF THE CAREL SYSTEM

■ Extended Lifespan

Multi-Protection Systems



■ High Immunity

Effective Handling Of Voltage Fluctuations
And Rapid Climate Shifts

■ Enhanced Efficiency

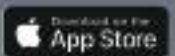
The Smart System Leverages the
Compressor Operating Envelope to
Achieve Peak Efficiency





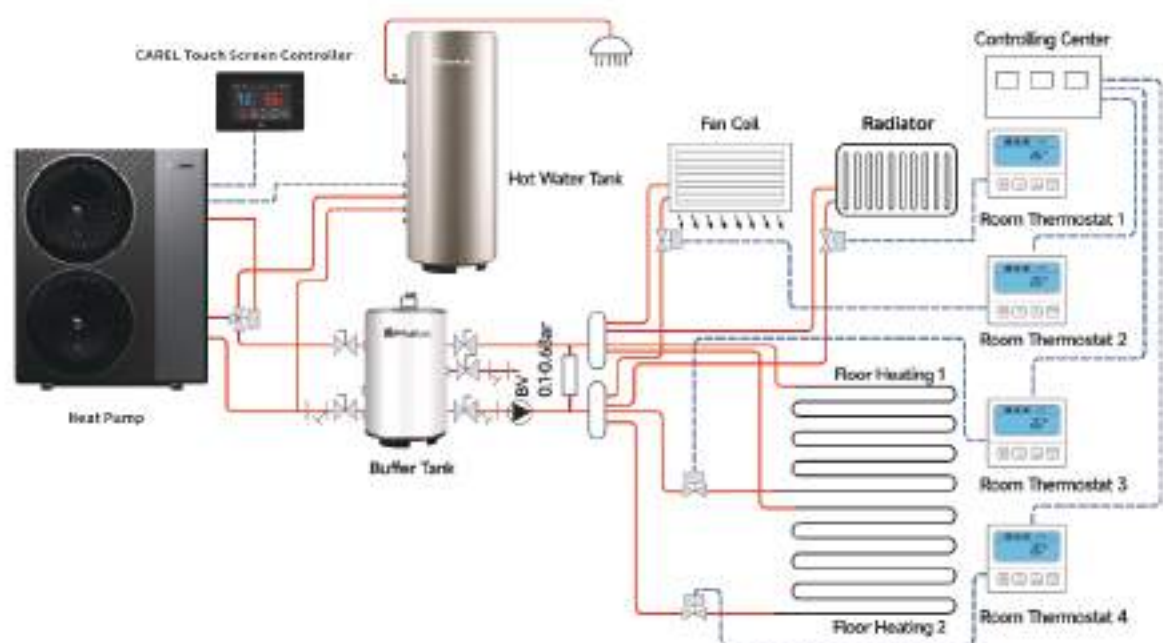
Colour Touch Controller

- Customizable System
- Fast Response & Precision Control
- Multiple Fan Modes
- Multiple Working Modes
- Multi-language Available



*Modes: Heating/Cooling/DHW/Heating+DHW/Cooling+DHW

INSTALLATION DIAGRAM





R290 Refrigerant:

Future-ready (GWP=3, CDP=0)

High Safety Rating:

Stable and Reliable R290 Safety Accessories

Built-in Water Pump

Grundfos(Silentpump Optional)

75°C Max. Outlet Water:

Unmatched High-Temperature Capability

SPECIFICATION

[illegible]

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R32 Refrigerant:

Widely adopted
eco-efficient solution

60°C Max.
Outlet Water:

Max.Outlet Water
Temperature

EVI System:

Efficient heating at
ultra-low temp
(Max. COP 5.95)

SPECIFICATION

[illegible]

10a. Heating condition: with residual temperature 320°C, mold temperature 120°C, mold pressure 10000kPa; 10b. Heating condition: with residual temperature 320°C, mold temperature 120°C, mold pressure 10000kPa; 10c. Heating condition: with residual temperature 320°C, mold temperature 120°C, mold pressure 10000kPa.

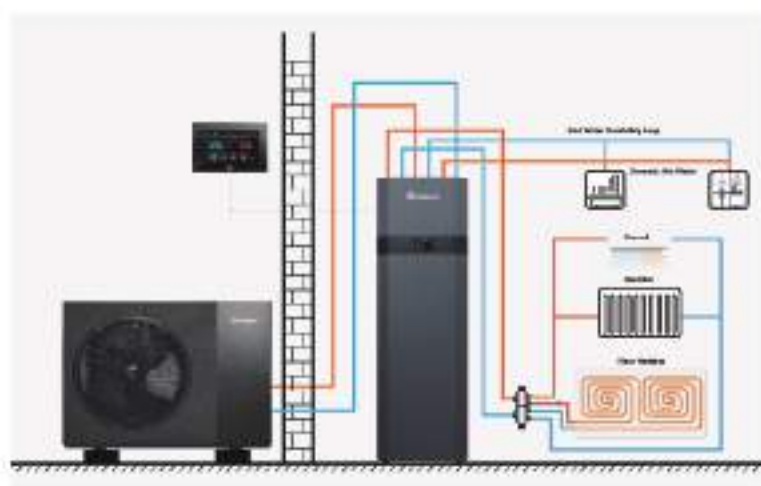
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Integral Hydronic Tank

Easy Installation & Cost Saving

SPRSUN Integral Hydronic Tank for indoor heating and hot water integrates essential accessories, simplifying the installation of your heat pump and resulting in time and cost savings.



- Efficient Heating
- Dual Temperature Zone Control
- Increase The Stability of The Unit
- Zero Cold Water Control
- Dual Safety Protection
- Adaptable with Solar Water Heater

SPECIFICATION

The Specification of Integral Hydronic Tank with CAREL Controller

	Model	CDH4H150S	CDH4H200S	CDH4H250S	CDH4H300S	CDH4H400S
Main Configuration	Power Supply (V/Hz/Ph)	220-240V/50Hz			380-400V/50Hz	
	Power	Hot water heater: 150L + Cooling electric heater: 300L				
	Control Method	Advanced Heat Pump Control				
	3-Way Valve	120S				
	Electric Heater	3kW/220V/50Hz			6kW/380V	
	Compressor Tank (L)	0				
	AC Condenser (A)	32 Explosion-proof relay				
	Pipeline	Spiral				
	Heat Exchanger Coil (Ex05584 corrugated pipe)	2400*150				
	Controlled branch	1/2"				
Parameters	Others	Built-in drain valve and exhaust valve				
	Buffer water tank	N/A				
	Hot water tank	150L	200L	250L	300L	
	Onboard Pipe Size	1/2" (1/2" NPT)				
	Current (A)	15A/220V			32A/380V	
	Max water temp	35°C				
	Net Dimension (mm)	665*520*1500mm	665*520*1500mm	665*520*1500mm	665*520*1500mm	
	Spine Packaging Dimension (mm)	1110*1070*1500mm	1110*1070*1500mm	1110*1070*1500mm	1110*1070*1500mm	
	Carton Size (mm)	1110*1070*1500mm	1110*1070*1500mm	1110*1070*1500mm	1110*1070*1500mm	
	Net Weight (kg)	150	150	150	150	
Subtype models	CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S	CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S	CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S	CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S	CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S, CDH4H150S, CDH4H200S, CDH4H250S, CDH4H300S, CDH4H400S	

Note: 1. The 300L model uses the CDH4H300S Integral Hydronic Tank, please pay attention to whether the power supply can withstand the system of the Integral Hydronic Tank. Connecting cables, accessories, etc. require additional configuration by the user.

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