

# GreenCore

CLIMATE SOLUTIONS

**SJK-Y Normal Ambient  
TEMP Series**

**SJK-YD Ultra-Low  
Ambient TEMP Series**



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**HOT WATER UNITS/** Air Source Swimming Pool units

# HIGH EFFICIENCY AIR SOURCE

Heat Pump Swimming Pool Unit

## Performance Characteristics

### ▪ **GREEN ENERGY SAVING**

POWER SAVING AND ENVIRONMENTAL PROTECTION

It absorbs heat from the air and generates heat under the drive of electric energy, which is more energy-saving. It adopts the new environmentally friendly refrigerant R410A, which has low GWP, zero ODP, and is green and pollution-free.

### ▪ **SAFE AND RELIABLE**

USE WITH CONFIDENCE

Water and electricity are separated, no combustion, no leakage, no air leakage, no pollution, and eliminate safety hazards such as flammable, explosive, electric shock, and poisoning.

### ▪ **ANTI-CORROSION DESIGN**

DURABLE

The tube heat exchanger is used to effectively resist the damage of chloride ions in the water, acid-resistant & corrosion-resistant, and the service life can reach more than 10 years.

### ▪ **ACCURATE TEMPERATURE CONTROL**

COMFORTABLE EXPERIENCE

Adopt advanced control system to accurately monitor the water temperature of the swimming pool in real time and keep the swimming pool constant temperature all day long.

## Application places

Villas, Communities,  
Hospitals, Hotels, Clubs, Playgrounds,  
etc...



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# HOT WATER UNITS/ Air Source Swimming Pool units

## AIR SOURCE Heat Pump Swimming Pool Unit

<b>Model</b>		Normal temp	<b>SJK-5G/IIYa</b>	<b>SJK-12G/IIYa</b>	<b>SJK-25G/IIYa</b>	<b>SJK-50G/IIYa</b>
		Ultra-low temp	<b>SJK-5G/IIYDa</b>	<b>SJK-12G/IIYDa</b>	<b>SJK-25G/IIYDa</b>	<b>SJK-50G/IIYDa</b>
Normal Temp Conditions	Heating capacity	kW	20	46	95	187
	Input power	kW	4.0	9.2	19.0	38
	COP	W/W	5.00	5.01	5.01	4.92
Low Temp Working Conditions	Heating capacity	kW	15	38	75	14.8
	Input power	kW	3.5	8.8	17.4	34.8
	COP	W/W	4.31	4.32	4.31	4.25
<b>Power</b>		380V/3N~50Hz				
Max. input power	kW	6	12	29	55	
Max. input current	A	11	23	55	108	
Anti-electric shock protection		Class				
Protection level		IPX4				
Ambient temp	°C	-12-45 Normal temp /-30-45Ultra-low temp				
Refrigerant		R410A /R32				
Air source heat exchanger		High-efficiency internal thread copper tube fin heat exchanger				
Water heat exchanger		Titanium tube heat exchanger				
Water system	Water Flow	m <sup>3</sup> /h	3.4	7.9	16.3	32.2
	Water Pipe Connection		DN25	DN40	DNGS	DN80/DN100
	Water Pressure Drop	kPa	≤56			
Dimensions (length * width * height)		mm	750*810*1060	1035*1070*1740	2010*1165*2210	2330*1345*2355
<b>Noise</b>		dB(A)	≤56	≤60	≤70	≤75
<b>Weight</b>		kg	150	300	700	1250

- Nominal operating conditions: dry bulb temperature 20°C, wet bulb temperature 15°C, water inlet temperature 25°C, water outlet temperature 30°C.
- Low temperature operating conditions: dry bulb temperature 7°C, wet bulb temperature 6°C, water inlet temperature 25°C, water outlet temperature 30°C.
- Specifications are subject to change with product improvements, please refer to the actual product.



# SIMULTANEOUS HEATING & COOLING UNITS

## CO2 (R744)

### PRODUCT INTRODUCTION

Sujing CO2 combined cooling and heating unit is an energy-efficient unit that uses natural environmentally friendly refrigerant CO2 (R744) . which can provide high-temperature hot water and low-temperature chilled water at the same time.

The unit absorbs heat from the heat source side through a trans critical refrigeration cycle and transfers it to the gas cooler to exchange heat with water.

the heating temperature is 70° \*90° C, the cooling temperature is as low as -20° C. and the comprehensive energy efficiency can reach 10.0. The unit occupies a small area, is easy to install, does not generate any pollution during operation, and has excellent economic & social benefits

### PRODUCT FEATURES

#### ▪ Green and environmentally friendly

Using natural working fluid CO2, it is non-toxic, non-flammable and pollution-free. making it the ultimate choice for the development of refrigerants.

#### ▪ Combined cooling and heating & high-temperature heating

Provides high-temperature hot water and low-temperature chilled water at the same time. and the heating/cooling temperature is adjustable.

#### ▪ Megawatt-level heat output

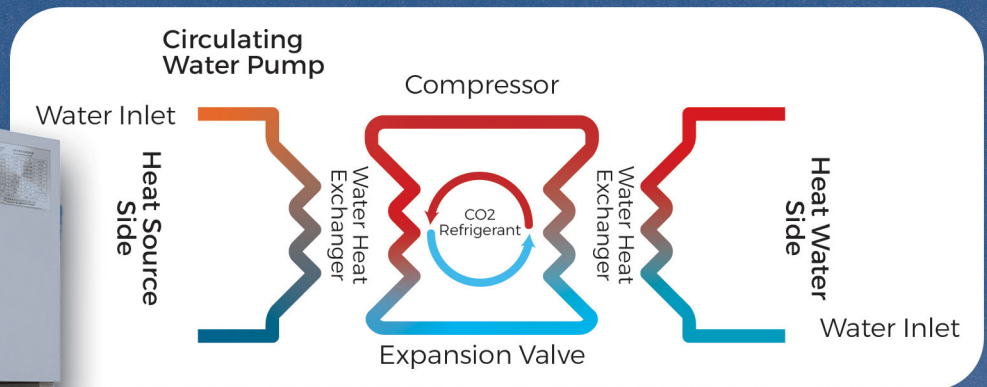
Configured with multiple parallel compressors. the equipment has a heating capacity range of 300kW™ 1500kW and a wide range of applications.

#### ▪ Energy-saving and efficient

Equipped with variable load regulation technology and variable frequency control system based on maximizing comprehensive energy efficiency, the comprehensive energy efficiency can reach 10.0.

Intelligent management

Remote control without supervision, real-time monitoring on mobile APP and PC, and real-time push of fault alarms.





# SIMULTANEOUS HEATING & COOLING UNITS CO2 R744

<b>Model</b>		SJSRS-25 II/C	SJSRS-35 II/C	SJSRS-60 II/C	SJSRS-70 II/C	SJSRS-105 II/C	SJSRS-105 II/C
<b>Specifications</b>		7.5HP	10HP	15HP	20HP	30HP	45HP
<b>Power supply</b>		380V/3P/50HZ					
<b>Heating mode</b>		Direct heating					
<b>Normal working conditions</b>	heating capacity (KW)	26.4	32.2	58.8	66.8	103	153
	Input power (KW)	5.5	6.7	12.2	13.9	21.4	31.8
	COPh	4.8	4.8	4.8	4.8	4.8	4.8
	Hot water flow (m2/h)	0.6	0.7	1.3	1.4	2.2	3.3
	Cooling capacity (KW)	20.9	25.5	46.6	52.9	81.6	121.2
	Chilled water flow (m3/h)	3.6	4.4	8	9.1	14	21
	COPc	3.8	3.8	3.8	3.8	3.8	3.8
	Comprehensive performance	8.6	8.6	8.6	8.6	8.6	8.6
<b>Max Load Condition</b>	heating capacity (KW)	2.7	32.7	61	67	105	159
	Input power (KW)	7.1	8.6	16	17.6	27.5	41.8
	COPh	3.8	3.8	3.8	3.8	3.8	3.8
	Hot water flow (m2/h)	0.4	0.5	0.9	1	1.6	2.4
	Cooling capacity (KW)	19.9	24.1	45	49.4	77.5	117.2
	Chilled water flow (m3/h)	3.4	4.1	7.7	8.5	13.5	20.1
	COPc	2.8	2.8	2.8	2.8	2.8	2.8
	Comprehensive performance	6.6	6.6	6.6	6.6	6.6	6.6
<b>High Temp water Condition</b>	heating capacity (KW)	22	26.4	49.5	55.7	83.5	128
	Input power (KW)	6.4	7.7	14.4	16.2	24.3	37.3
	COPh	3.4	3.4	3.4	3.4	3.4	3.4
	Hot water flow (m2/h)	0.27	0.32	0.6	0.7	1	1.6
	Cooling capacity (KW)	15.6	18.7	35.1	39.5	59.2	90.7
	Chilled water flow (m3/h)	2.7	3.2	6	6.8	10.2	15.6
	COPc	2.4	2.4	2.4	2.4	2.4	2.4
	Comprehensive performance	5.8	5.8	5.8	5.8	5.8	5.8
<b>Water pipe connection</b>	DN20/DN40		DN25/DN40		DN32/DN50		
<b>water heat exchanger</b>	Shell and tube / shell and tube plate heat exchanger						
<b>Compressor type</b>	Semi-closed reciprocating						
<b>Operation panel</b>	Color touch screen						
<b>Wax hot water outlet temp</b>	90°C						
<b>Refrigerant</b>	R744 (CO <sub>2</sub> )						
<b>Design pressure (MPa)</b>	15MPa (HP) /8MPa (LP)						
<b>dimensions (length*width*height)mm</b>	1295x1045x1660			1295x1045x1810		1680x1250x1710	
<b>Noise (dB)</b>	≤65	≤65	≤65	≤70	≤70	≤70	
<b>Weight (Kg)</b>	450	550	660	760	880	1180	

**Remarks:**

- Nominal working condition: hot water side water supply/outlet temperature 15/55 °C, cold water side water inlet/outlet temperature 15/10 °C.
- Maximum load working condition: hot water side water supply/outlet temperature 29/85 °C, cold water side water inlet/outlet temperature 25/20 °C.
- High temperature water outlet working condition: hot water side water supply/outlet temperature 15/85 °C, cold water side water inlet /outlet temperature 15/10 °C.