

CFC-free Refrigerant Air-cooled Central Water Chiller

SICC-90A-R2



SICC-A-R2 Series

Coding Principle



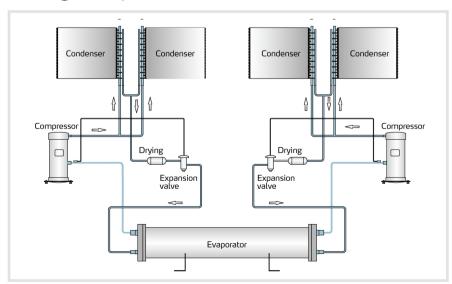
Features

- Modularized design makes it easier to combine module units 1~15. Cooling capacity can be enlarged by
 increasing the number of modules or choose appropriate modules to connect to existing system.
- The water route of the modules can be linked via linking one module to the inlet/outlet water tube. No
 need to install the inlet/outlet water tube for each module alone. The soft rubber tube is used to connect
 the modules, thus it is very convenient to construct.
- Adopt components like scroll compressor, expansion valve which ensure stable performance. The whole
 unit will not stop due to one module failure.
- When the unit starts up, the controller of the master unit will automatically ON/OFF and load of each module according to system load. Hence, lowering energy consumption during non-peak hours.
- Adopt electronic expansion valve to control the compressor exhaust temp. to prevent damage on system performance due to exhaust temp. rise.
- Link individual controller, capable of detaching any module to realize another cooling system.
- Protection grade: IP54.
- Equipped RS485 communication realizes remote monitoring and network function.

Application

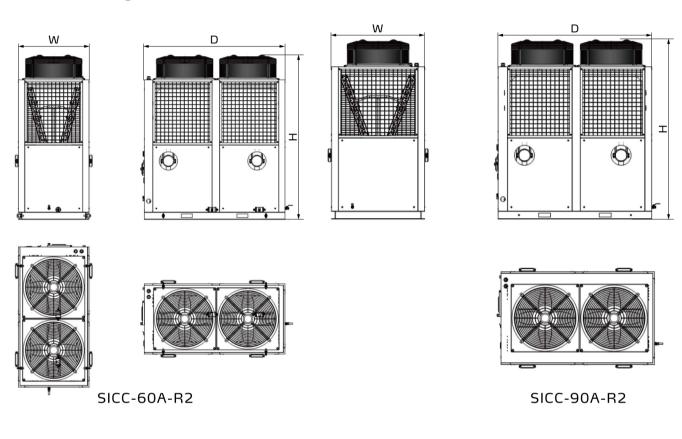
SIC-A-R2 series are applicable for cooling moulds to reduce the product moulding cycle; they are also available in the cooling of equipment to maintain a normal temperature. Besides, they are suitable for other industries with the need for water cooling.

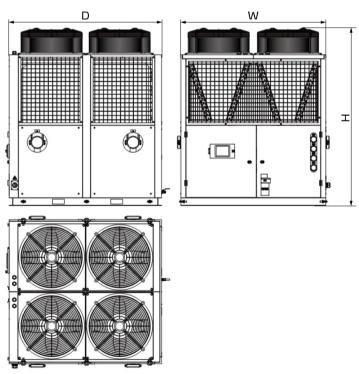
Working Principle





Outline Drawings



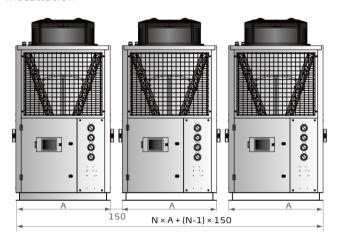


SICC-120A-R2

SICC-A-R2 Series

Modular combination

Installation



Туре	Module Model	Model Diemension (A)	Combination Dimension	
Module Unit	SICC-60A-R2	975	- N×A+ (N-1)×150	
	SICC-90A-R2	1170		
	SICC-120A-R2	1825		

Note: The installation clearance between module machines is 150mm to facilitate ventilation and condensation. The conbination is shown in the figure.

Туре	Model	Grouping	Compressor Power (kW)
Module Model	SICC-60A-R2 60A		17.2
	SICC-90A-R2 90A		25
	SICC-120A-R2	120A	34
Modute Unit	SICC-150A-R2	60A + 90A	42.2
	SICC-180A-R2 2 × 90A		50
	SICC-210A-R2	90A + 120A	59
	SICC-240A-R2	2 × 120A	68
	SICC-270A-R2	3 × 90A	75
	SICC-300A-R2 2 × 90A + 1		84
	SICC-330A-R2	3 × 90A + 60A	92.2
	SICC-360A-R2	3 × 120A	102

Туре	Model	Grouping	Compressor Power (kW)
Module Unit	SICC-420A-R2	4 × 90A + 60A	117.2
	SICC-450A-R2	5 × 90A	125
	SICC-480A-R2	4 × 120A	136
	SICC-540A-R2	6 × 90A	150
	SICC-570A-R2 4 × 120A + 9		161
	SICC-600A-R2 5 × 120A		170
	SICC-660A-R2	5 × 120A + 60A	187.2
	SICC-720A-R2	6 × 120A	204
	SICC-780A-R2 6 × 120A + 60A		221.2
	SICC-840A-R2 7 × 120A		238
	SICC-930A-R2 7 × 120A + 90A		263
	SICC-990A-R2	7×120A+90A+60A	280.2

We reserve the right to change specification without prior notice.



Specifications

Iten	1	Model	SICC-60A-R2	SICC-90A-R2	SICC-120A-R2
Cooling ¹⁾ Capacity		kW	60	90	120
		kcal/hr	51,600	77,400	103,200
Cooling ²⁾ Capacity		kW	74	109	140
		kcal/hr	63,640	93,740	120,400
Power			3ф, 400VAC, 50Hz		
Total Power kW		kW	19	28	37
Running Current		Α	35	50	65
Startup Current		Α	140	175	230
sor	Туре		Scroll		
Compressor	Power	kW	8.6 × 2	12.5 × 2	17 × 2
Corr	Crank Case Heater	kW	0.08 × 2	0.08 × 2	0.56× 2
ant	Туре			R410A	
Refrigerant	Filling amount	kg	15	17	26
_	Туре		Tube-in-shell		
Evaporator	Cooling Flow	m³/hr	10.3	15.5	20.6
л	Pressure Loss	kPa	27	39.2	49
ш	Pipe Coupler	inch	5"Clamp	5"Clamp	5"Clamp
ser	Туре			Fin Style	
Condenser	Blower Power	kW	1.49×2	1.49×2	1.49×2
Co	Air Quantity	m³/hr	9500×2	9500×2	9500×4
		mm	975	1170	1825
insic	W	inch	38.4	46	71.9
Jime	D	mm	1920	1920	1920
ne [inch	75.6	75.6	75.6
Machine Dimension	Н	mm	2250	2250	2250
Σ		inch	88.6	88.6	88.6
	Before Packing	kg	710	840	1200
Weight		lb	1565	1852	2646
	After Packed	kg	780	900	1330
		lb	1720	1984	2932
Noise dB(A	e Level)	dB(A)	78	80	85
	Conversion	1	1 kW = 860 kcal/hr	1 RT = 3,024 kcal/hr 10,000 Bt	u/hr = 2,520 kcal/hr

Notes:

1) Cooling capacity is measured based on the flow of 0.172m³/(h.kW) and the outlet temperature 7°C/44.6°F of chilled water under the environmental temperature of 35°C/95°F.

2) Cooling capacity is measured based on the flow of $0.172 m^3/(h.kW)$ and the outlet temperature $15^{\circ}\text{C}/59^{\circ}\text{F}$ of chilled water under the environmental temperature of $35^{\circ}\text{C}/95^{\circ}\text{F}$.

3) Machine operation conditions: ambient environment is at $15~43^{\circ}$ C($59~109.4^{\circ}$ F), chilling water temperature is at $8~25^{\circ}$ C($46.4~77^{\circ}$ F), for special requirements, the machine can be customized.

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