

CFC-free Refrigerant Air-cooled Central Water Chiller

SICC-90A-R2



SICC-A-R2 Series

Coding Principle



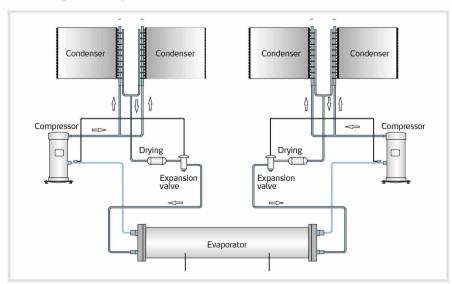
Features

- 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.
- 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

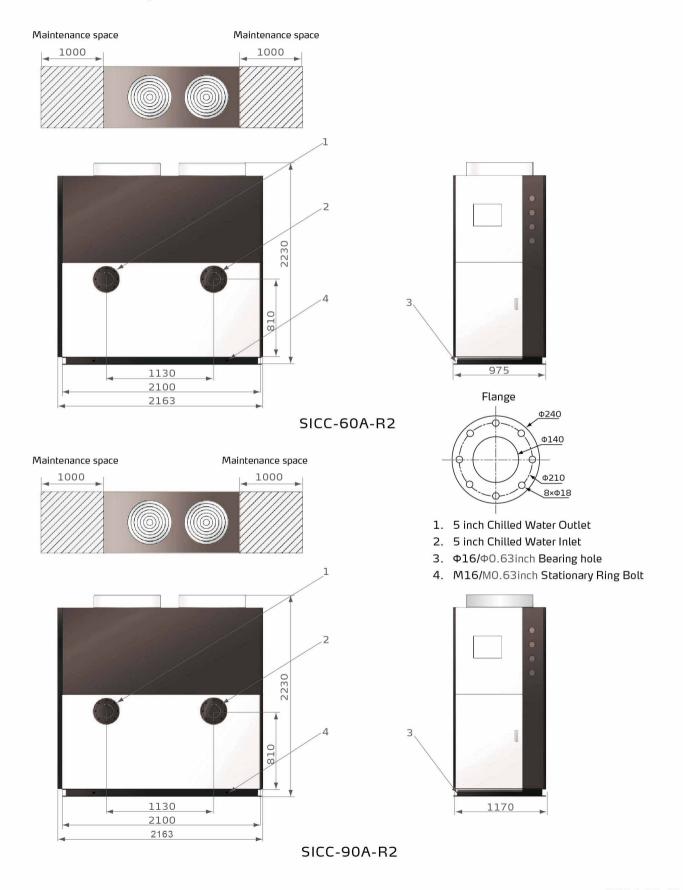
SIC-A-R2 series are applicable for cooling moulds to reduce the product moulding cycle; they are also available in the cooling of equipment to maintain a normal temperature. Besides, they are suitable for other industries with the need for water cooling.

Working Principle

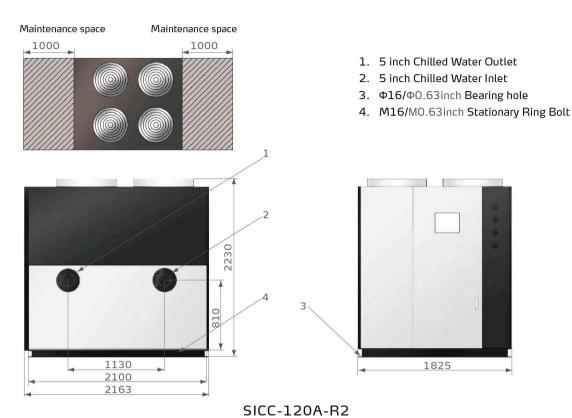




Outline Drawings

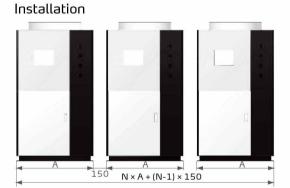


SICC-A-R2 Series



5.55 2257.

Modular combination



Туре	Model	Grouping	Compressor Power (kW)
Module	SICC-60A-R2 60A		17.2
	SICC-90A-R2	90A	25
	SICC-120A-R2	120A	34
Module 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 + 120A		84
	SICC-330A-R2 3 × 90A + 60A		92.2
	SICC-360A-R2 3 × 120A		102

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

Notes: Combination of modules unit as shown in left figure. Unit: mm.

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 + 90A	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.



I Specifications

Item	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	50	75	97	
		kcal/hr	43,000	64,500	83,420	
Power			3ф, 400VAC, 50Hz			
Total Power		kW	19	28	37	
Running Current		Α	35	50	65	
Startup Current		Α	140	175	230	
SSOF	Туре			Scroll		
Compressor	Power	kW	8.6 × 2	12.5 × 2	17 × 2	
	Crank Case Heater	kW	0.09 × 2	0.09 × 2	0.12× 2	
rant	Тур	oe		R410A		
Refrigerant						
Re						
٥٦	Тур	oe	Tube-in-shell Evaporator			
Evaporator	Cooling Flow	m³/hr	10.3	15.5	20.6	
vap	Pressure Loss	kPa	27	40	53	
	Pipe Coupler	inch	5	5	5	
ıser	Ty		Fin Style Air-cooled Condenser			
Condenser	Blower Power	kW	1.6	2.2	3.2	
ပိ	Air Quantity	m³/hr	26,000	39,000	52,000	
O	w —	mm		2,163		
ensi		inch		85.2		
ΕÏ	D	mm	975	1,170	1,825	
Machine Dimension		inch	38.4	46	71.9	
\ach	Н	mm	2,230			
		inch	87.8			
	Before Packing	kg	810	940	1,300	
Weight		lb	1,785.7	2,072.3	2,866	
	After	kg	850	1,000	1,370	
	Packed	lb	1,873.9	2,204.6	3,020.3	
Noise dB(A	e Level)	dB(A)	78	80	85	
Unit Conversion			1 kW = 860 kcal/hr	1 RT = 3,024 kcal/hr 10,000 Bto	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 15°C/59°F of chilled water under the environmental temperature of 35°C/95°F.

2) 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.

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

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