



"Budget" Air-cooled Water Chiller

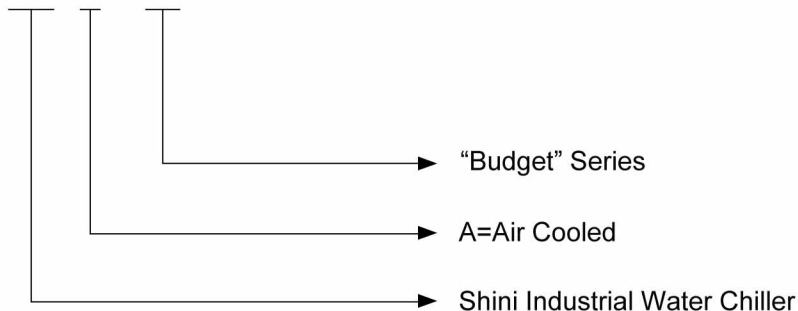
SIC-5A-EB



Refer carefully to this manual before operation.

■ Coding Principle

SIC - A - EB



■ Features

- Cooling range 7~25℃
- Stainless steel insulated water tank, with prolonged service life and free of contamination.
- Adopt R410 A refrigerant with good refrigeration effect.
- Refrigerating system adopts multiple precise controls that accurately control the system stability.
- Compressor and pump overload protection.
- Fin-style condenser with quick heat conduction and good dissipation effect.
- Adopt tube and shell evaporator. The copper pipe is directly mounted on water tank that is economical and practical.
- Adopt renowned brand of original precision temperature-controlled meter with an accuracy of $\pm 0.1^{\circ}\text{C}$.



Control panel

■ Application

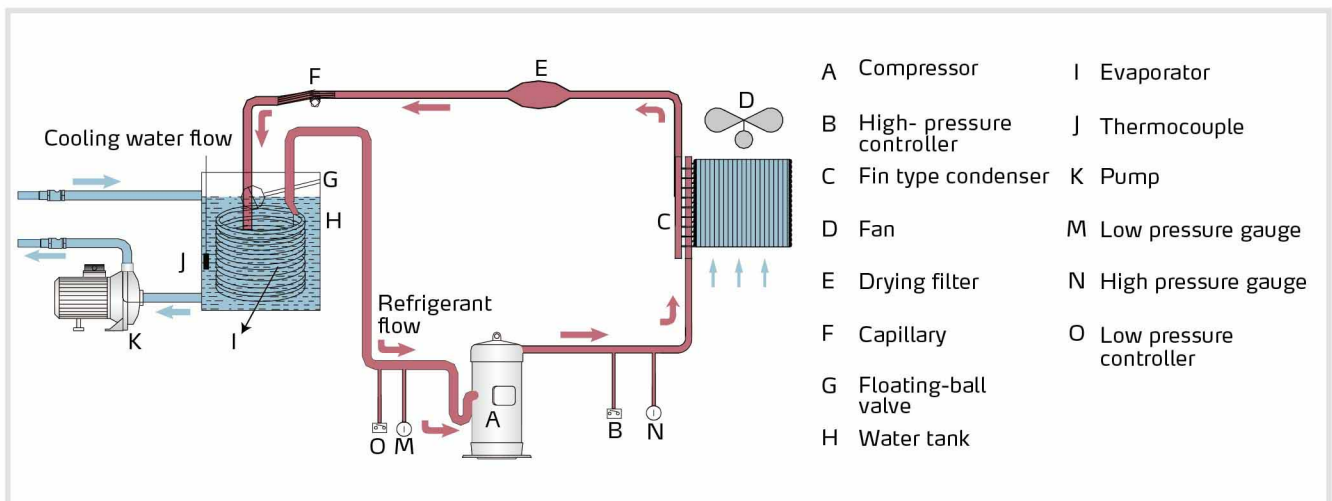
SIC-A-EB series are applicable for cooling moulds to reduce products molding cycle time; also they are available in the cooling of equipments in order to maintain a normal temperature. Besides, they are suitable for other industries with the need of cooling.

SIC-A-EB Series

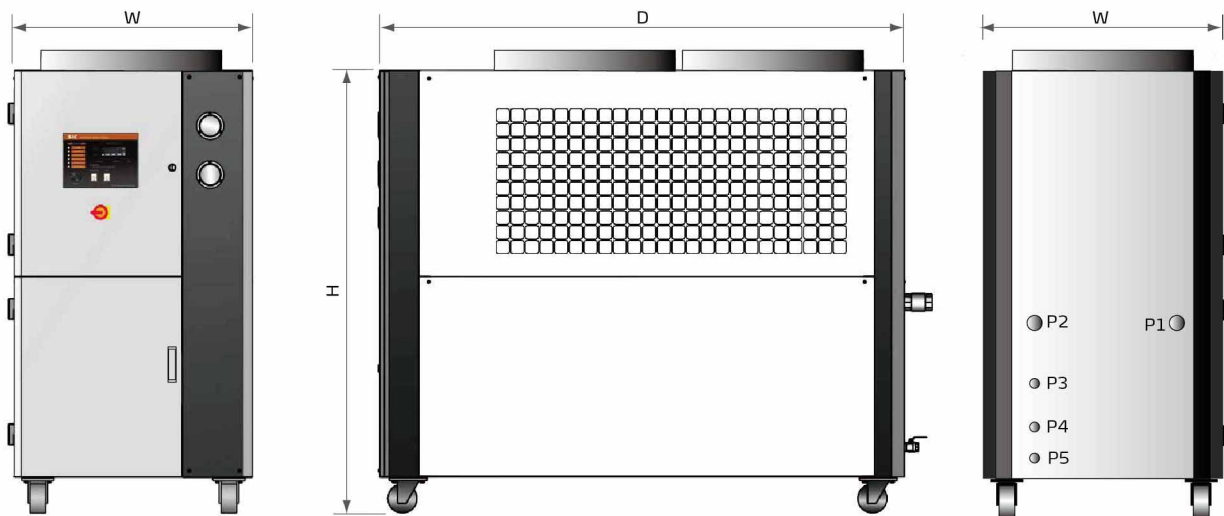
Working Principle

SIC-A-EB air cooled water chiller mainly consists of compressor, condenser, capillary and tube evaporator. Adopting single-stage vapor compression refrigerating system, gas-liquid adsorption and release, it achieves the cooling effect.

When SIC-A-EB air-cooled water chiller starting up, compressor (A) starts working. Refrigerant is compressed into high temperature high pressure gas, and then be cooled when passing through condenser (C) and changed into liquid. Heat is taken away by the cooling air. The liquid high pressure refrigerant passes through the capillary (F), and partial refrigerant is changed into gas under reduced pressure. At this time, the refrigerant is mixed with gas and liquid, which cools down the chilled water into required temperature after passing through the tube evaporator(I). By heat adsorption, the liquid refrigerant changes to gas and returns the compressor for this circulation.



Outline Drawings



SIC-A-EB

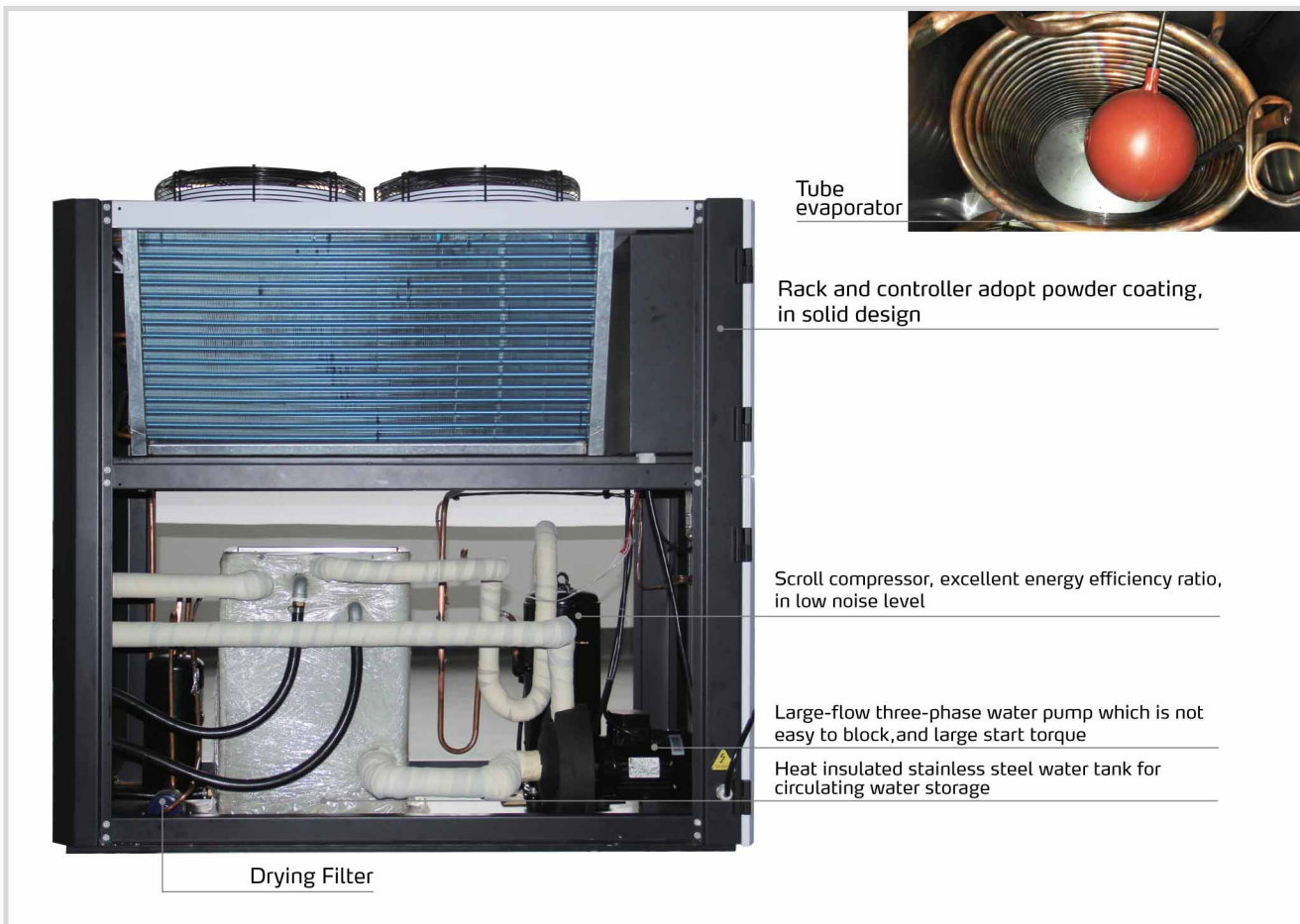
Outline Drawings

Model	H (mm)	W (mm)	D (mm)	P1 (inch) Chilled Water inlet	P2 (inch) Chilled Water Outlet	P3 (inch) Water Tank Refill Work	P4 (inch) Water Tank Overflow Port	P5 (inch) Water Tank Outlet Port	Weight (kg)
SIC-5A-EB	1375	675	1295	1	1	1/2	1/2	1/2	240
SIC-10A-EB	1395	710	1420	1	1	1/2	1/2	1/2	310

Model selection References

Model	SIC-5A-EB			SIC-10A-EB	
Mould Clamping Force(T)	≤300	≤350	≤450	≤550	≤650
Molding Capacity (kg/hr)	≤30	≤35	≤45	≤55	≤65

Structure of Air-cooled Models



SIC-A-EB Series

■ Specification

Model		SIC-5A-EB	SIC-10A-EB
Refrigerant Capacity	kW	10	20
	kcal/hr	8,600	17,200
Compressor	Type	Scroll	
	Input power	kW	3.3
Refrigerant	Filling Volume (kg)	7.5	15
	Control Mode	Capillary	
	Type	R410A	
Evaporator	Type	Tube style	
Condenser	Type	Fin style	
	Blower power (kW)	0.19×2	0.25×2
Water Tank Capacity (L)		55	145
Water pump (50Hz)	Power (kW)	0.37	0.75
	Pump flow (L/min)	60	
	Working Pressure (Bar)	2.0	
Total Power (kW)		4.05	7.85
Pipe Coupling (inch)	Chilled Water Outlet	1	
	Chilled Water Inlet	1	
	Water Tank Drainage Port	1/2	
	Water Tank Overflow Port	1/2	
Protective Devices	Compressor	Built-in protective switch /Overload Relay	
	Pump	Overload Relay	
	Refrigeration Loop	High and Low pressure controller	
Power		3Φ, 400VAC, 50Hz	
Measures Exchange		1 kW = 860 kcal/hr	1 RT = 3,024 kcal/hr 10,000 Btu/hr = 2,520 kcal/hr

Note: 1) The refrigeration capacity is measured based on the outlet temperature (20°C) of chilled water under the environment temperature of 35°C.

2) Special orders of machine voltage can be acceptable according to customers's request.

We reserve the right to change specifications without prior notice.

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