

FCCW50211-1101



Model		FCCW50211-1101	
Cooling method		Vapor compression refrigeration	
Radiating method		Water-cooled	
Control method		PID	
Ambient temperature/humidity ※1		5~40°C, 35 ~ 70%RH	
Operating temperature range ※1		5.0°C-40.0°C	
Performance	Cooling capacity ※2	Facility water temperature25°C, Circulating fluid temperature20°C	5kw
		Facility water temperature32°C, Circulating fluid temperature20°C	4.5kw
	Heating capacity	Circulating fluid temperature20°C	≈600w
	Temperature stability ※3		±0.1°C
	Refrigerant		R410a
	Quantity of refrigerant		0.6kg
Main components	Compressor	Type	Rotary
		Power	1.92kw
	Condensor	Type	Micro-channel
		Material	Aluminum
	Throttling device		Electronic expansion valve
	Evaporator	Type	Plate heat exchanger
		Material	SUS316
	Water tank volume		7.5L
	Pump	Type	Centrifugal pump
		Power	0.37kw
Flow rate (outlet) ※4※5		16.6L/min	
Lift		20.6m	
Circulating fluid system	Type		Pure water/15%ethylene glycol solution
	Wetted parts material		304 stainless steel, EPDM, HDPE,PP, VMQ
	Inlet/outlet port size		G1/2
	Drain port size		Rc1
Facility water system	Temperature range		5.0°C-40.0°C
	Pressure range		0.3MPa-0.5MPa
	Required flow rate ※6		15L/min
	Fluid contact material		304 stainless steel, copper
	Port size		G3/8
Electrical system	Power supply ※7		Single-phase AC220V±10%, 50Hz
	Rater current ※8		8A
	Rater power ※8		1.7kw
	Breaker		30A
Overall dimensions (width*depth*height)		380mm*596mm*837mm	
Weight		72kg	
Noise ※9		65dB(A)	
Special requirements		/	

※1 No condensation should be present;

※2 ① Ambient temperature: 25°C, ② Circulating fluid temperature: 20°C, ③ Circulating fluid at the rated flow, ④ Circulating fluid: Tap water, ⑤ Facility water temperature: 25°C/32°C;

※3 Temperature at the thermo-chiller outlet when the circulating fluid flow is at the rated flow and the circulating fluid outlet and return port are directly connected;

The installation environment and power supply are within the specification range and stable;

※4 The capacity at the thermo-chiller outlet when the circulating fluid temperature is 20°C;

※5 The required minimum flow rate for maintaining the cooling capacity or temperature stability;

The specification of the cooling capacity and the temperature stability may not be satisfied if the flow rate is lower than the rated flow. (In such a case, use a bypass piping set);

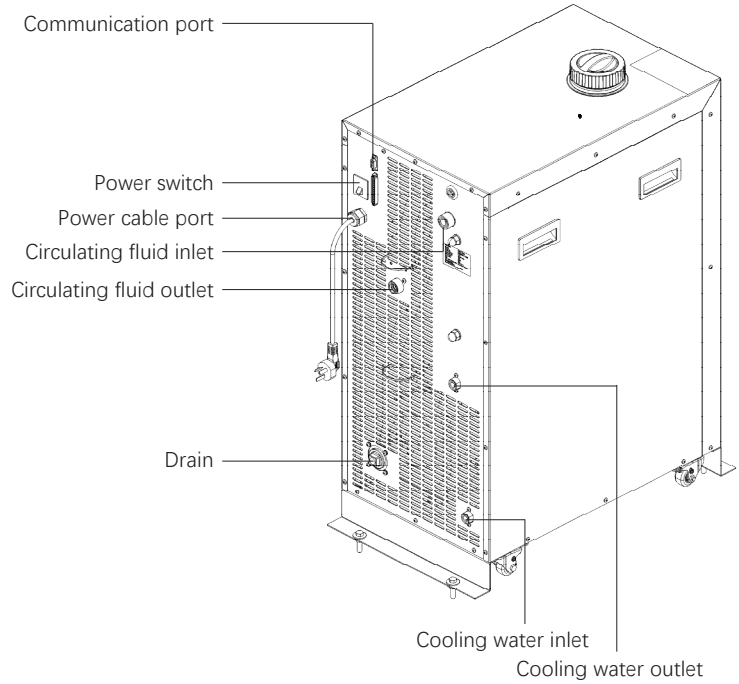
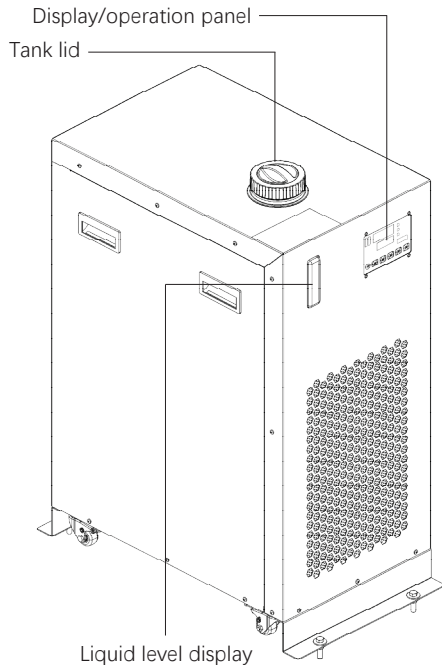
※6 The required flow rate when the cooling capacity load is applied at a circulating fluid temperature of 20°C, and circulating fluid rated flow and facility water temperature of 25°C;

※7 No continuous voltage fluctuation;

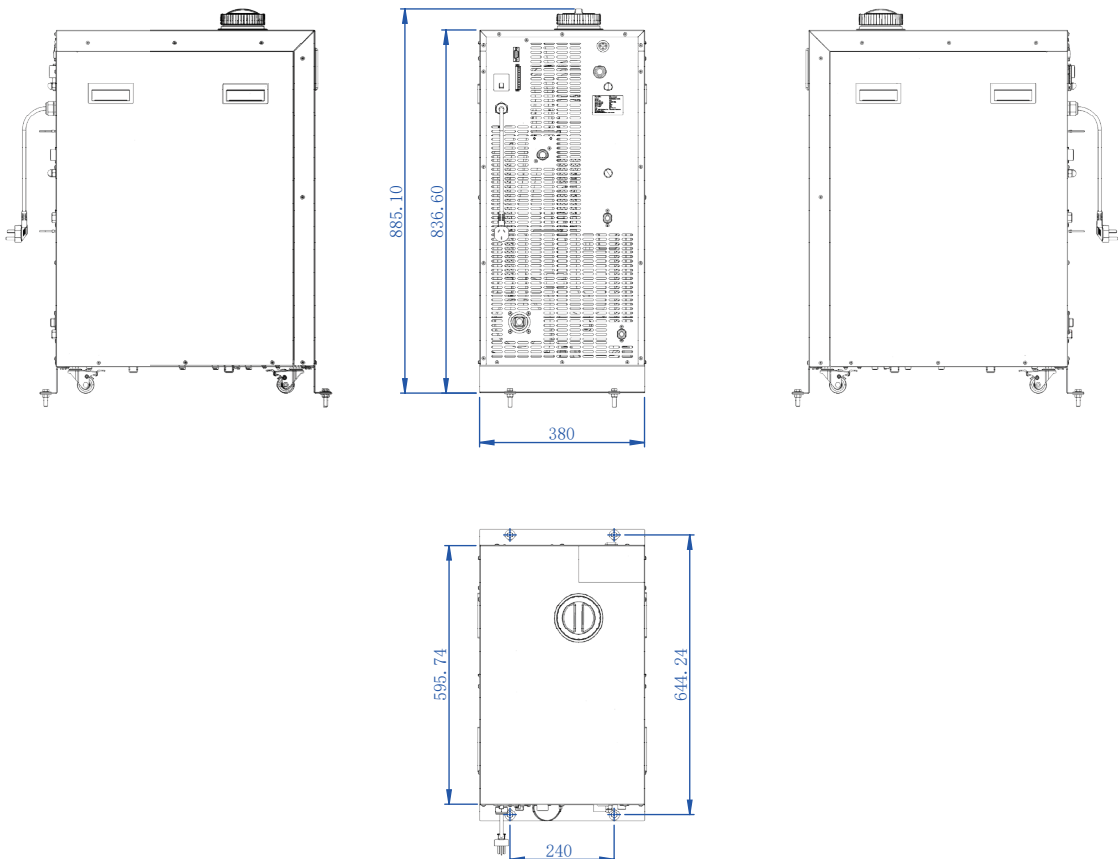
※8 ① Ambient temperature: 25°C, ② Circulating fluid temperature: 20°C, ③ Circulating fluid at the rated flow, ④ Circulating fluid: Tap water, ⑤ Facility water temperature: 25°C;

※9 Front 1m, height 1m, stable without load.

Parts introduction

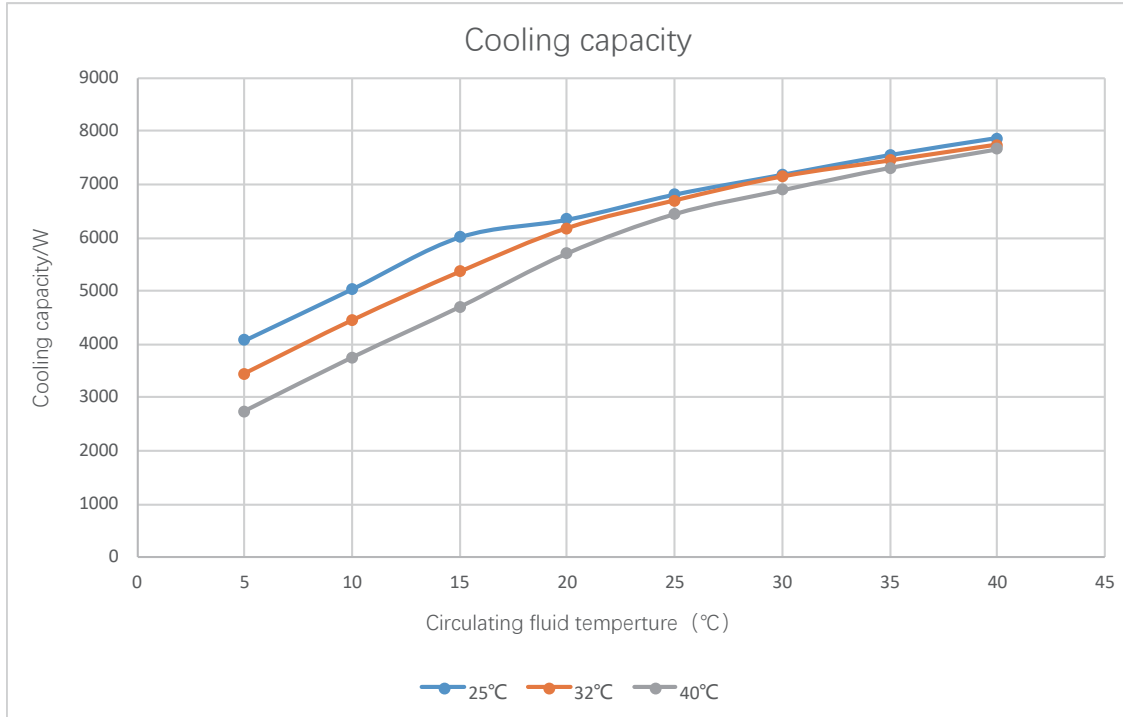


Dimensions

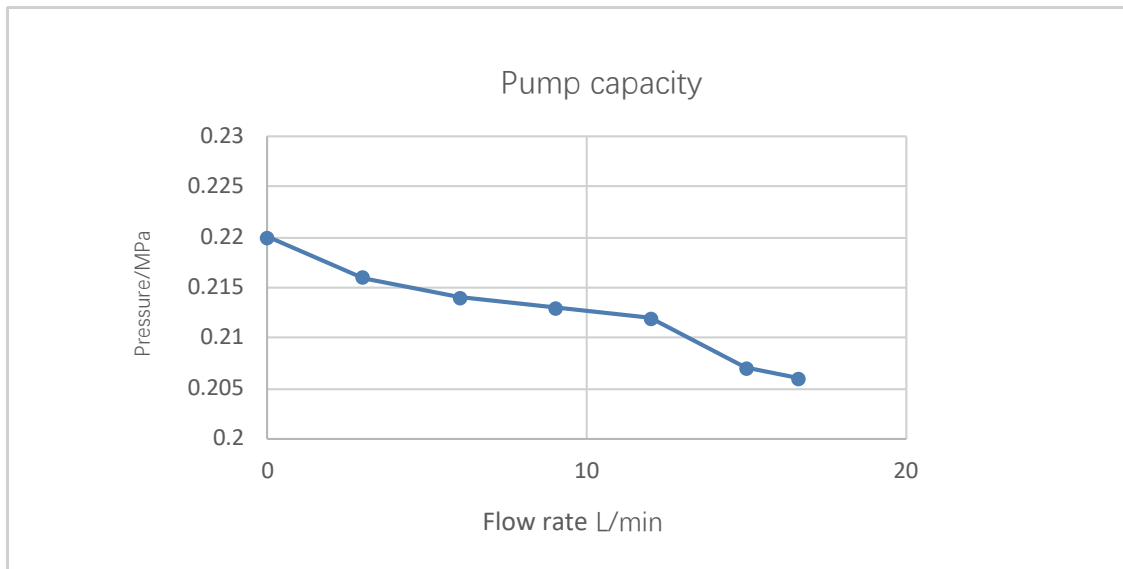


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Performance curve



Cooling performance



Pump performance