

FCCA50211-1101



Model		FCCA50211-1101	
Cooling method		Vapor compression refrigeration	
Radiating method		Water-cooled	
Control method		PID	
Ambient temperature/humidity ※1		5~40°C , 30 ~ 70%RH	
Operating temperature range ※1		5.0°C-40.0°C	
Performance	Cooling capacity※2	Ambient temperature 25°C, Circulating fluid temperature 20°C	5kw
		Ambient temperature 32°C, Circulating fluid temperature 20°C	4.5kw
	Heating capacity	Ambient temperature 25°C, Circulating fluid temperature 20°C	0.8kw
Main components	Temperature stability ※3		±0.1°C
	Refrigerant		R410a
	Quantity of refrigerant		0.72 kg
	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
	Fan	Type	AC axial fan
		Power	0.22kw
		Air flow	2700m ³ /h@30pa
Pump	Type	Centrifugal pump	
	Power	0.37kw	
	Flow rate(outlet) ※4	16.6L/min	
	Lift ※5	20.6m	
Circulating fluid system	Type	Pure water/15% ethylene glycol solution	
	Wetted parts material	304 stainless steel,EPDM,PE,VMQ	
	Inlet/outlet port size	G1/2	
	Drain port size	Rc1	
Electrical system	Power supply ※6	Single-phase AC220V±10%, 50Hz	
	Rated current ※7	10.96A	
	Rated power ※7	2.4kw	
	Breaker	30A	
Overall dimensions(width*depth*height)		380mm*756mm*837mm	
Weight		83kg	
Noise ※8		68dB(A)	
Special requirements		/	

※1 No condensation should be present;

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

※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;

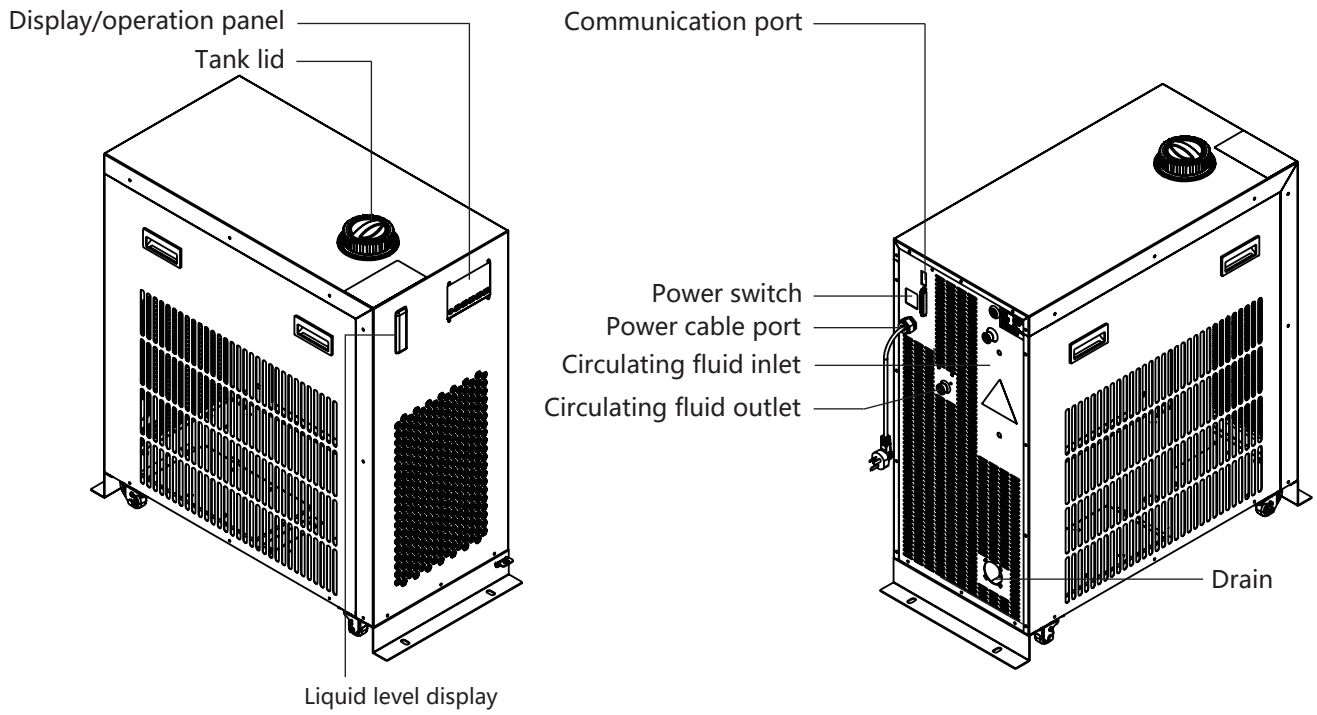
The specification of the cooling capacity and the temperature stability may not be satisfied if the flow rate is lower than the rated flow. (In such a case, use a bypass piping set);

※6 No continuous voltage fluctuation;

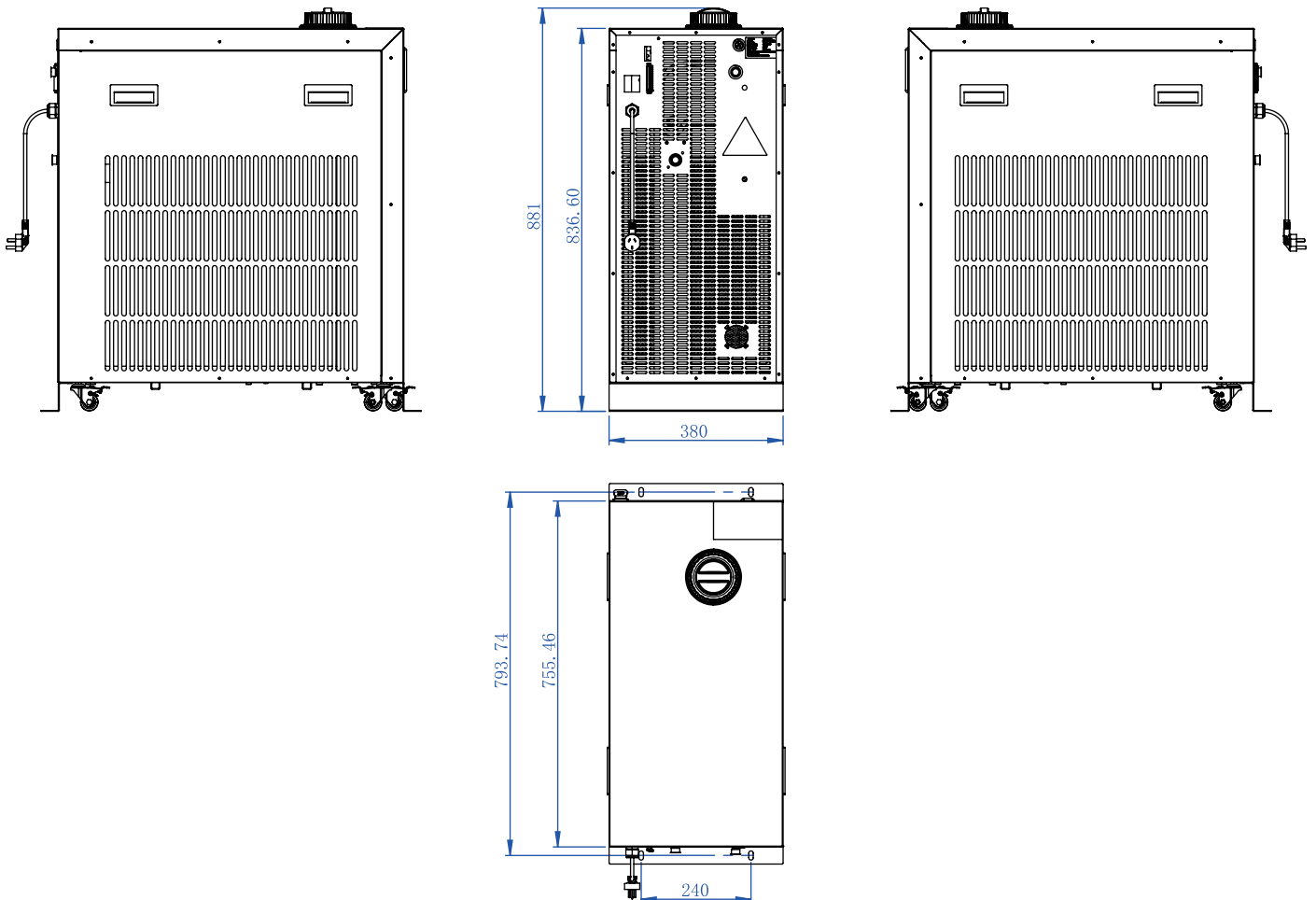
※7 ① Ambient temperature: 25°C, ② Circulating fluid at the rated flow, ③ Circulating fluid: Tap water, ④ Circulating fluid temperature: 20°C;

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

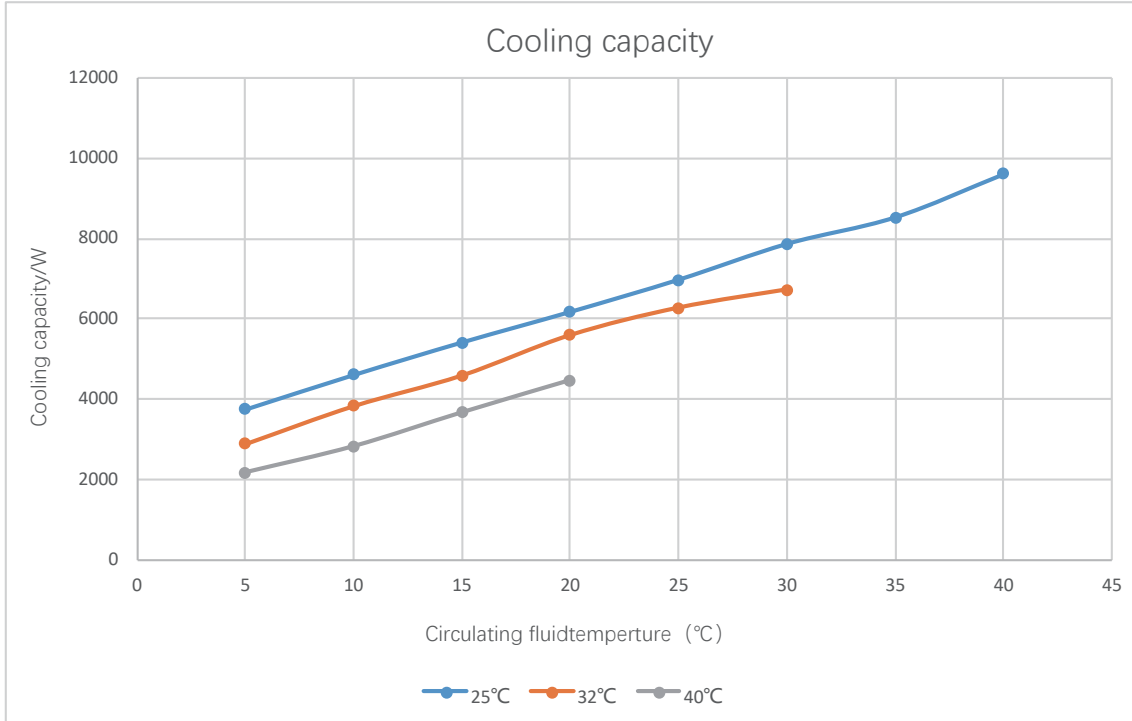
Parts introduction



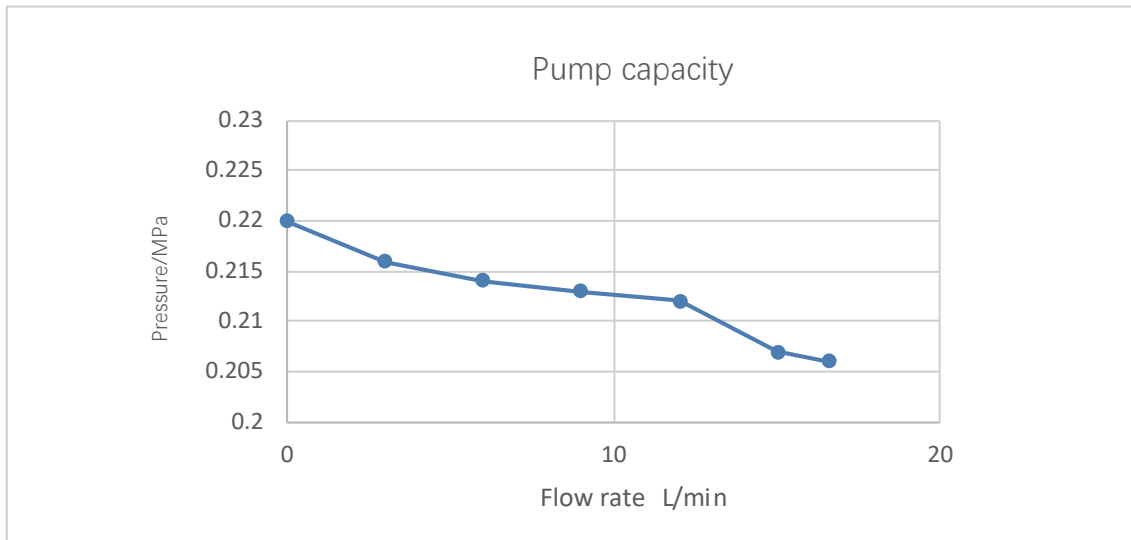
Dimensions



Performance curve



Cooling performance



Pump performance