

FCCW15211-1101



Model		FCCW15211-1101	
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 temperature 25°C Circulating fluid temperature 20°C	1.61kw
		Facility water temperature 32°C Circulating fluid temperature 20°C	1.27kw
	Heating capacity	Circulating fluid temperature 20°C	0.4kw
	Temperature stability ※3		±0.1°C
	Refrigerant		R410a
	Quantity of refrigerant		0.4kg
Main components	Compressor	Type	Rotary
		Power	0.57kw
	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		0.25kw	
Flow rate (outlet) ※4 ※5		16.8L/min	
Lift		17m	
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	12L/min	
	Fluid contact material	304 stainless steel, copper	
	Port size	G3/8	
Electrical system	Power supply ※7	Single-phase AC220V±10%, 50Hz	
	Rated current ※8	3.71A	
	Rated power ※8	0.8kw	
	Breaker	10A	
Overall dimensions (width * depth * height)		380mm*504mm*580mm	
Weight		44kg	
Noise ※9		63dB(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;

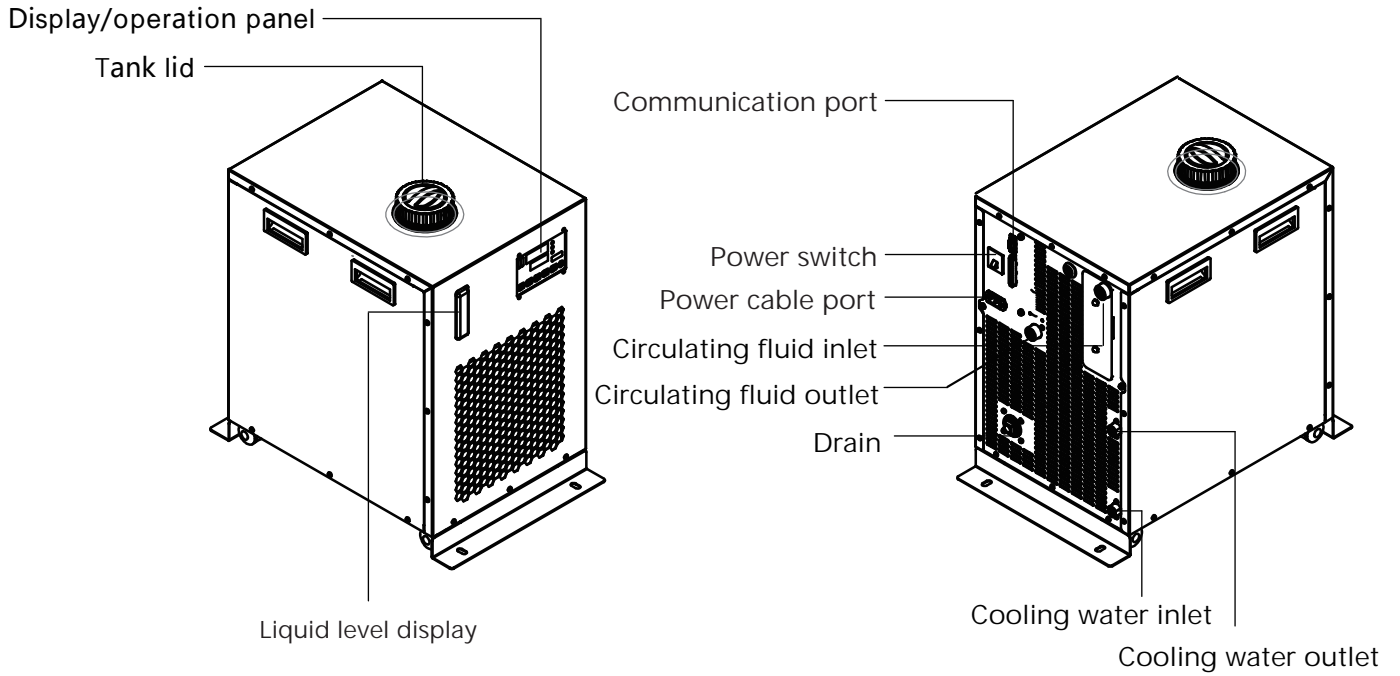
※7 No continuous voltage fluctuation ;

※8 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;

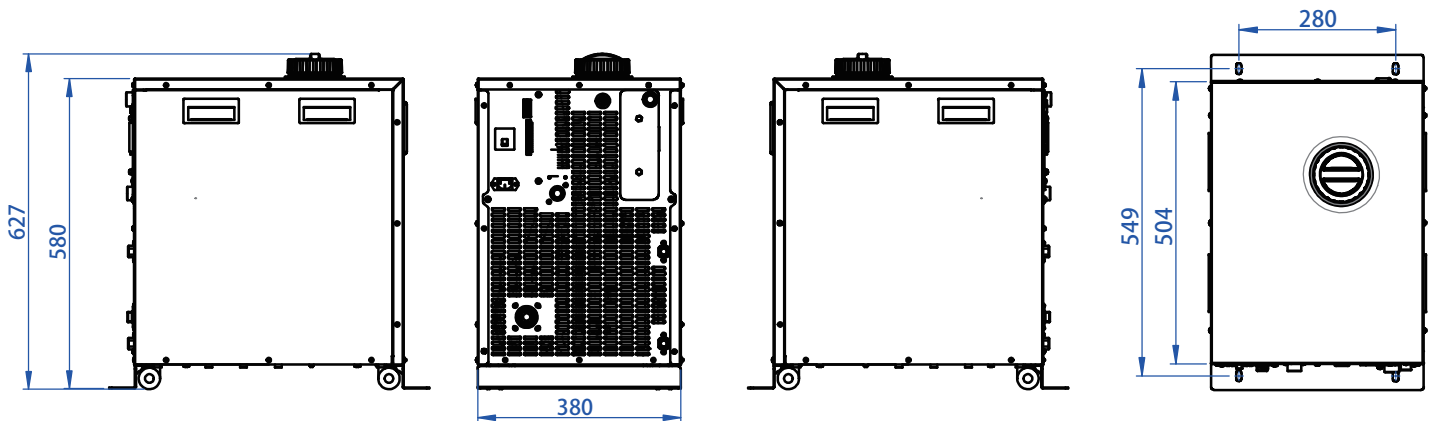
※9 Front 1m, height 1m, stable without load.

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Parts introduction

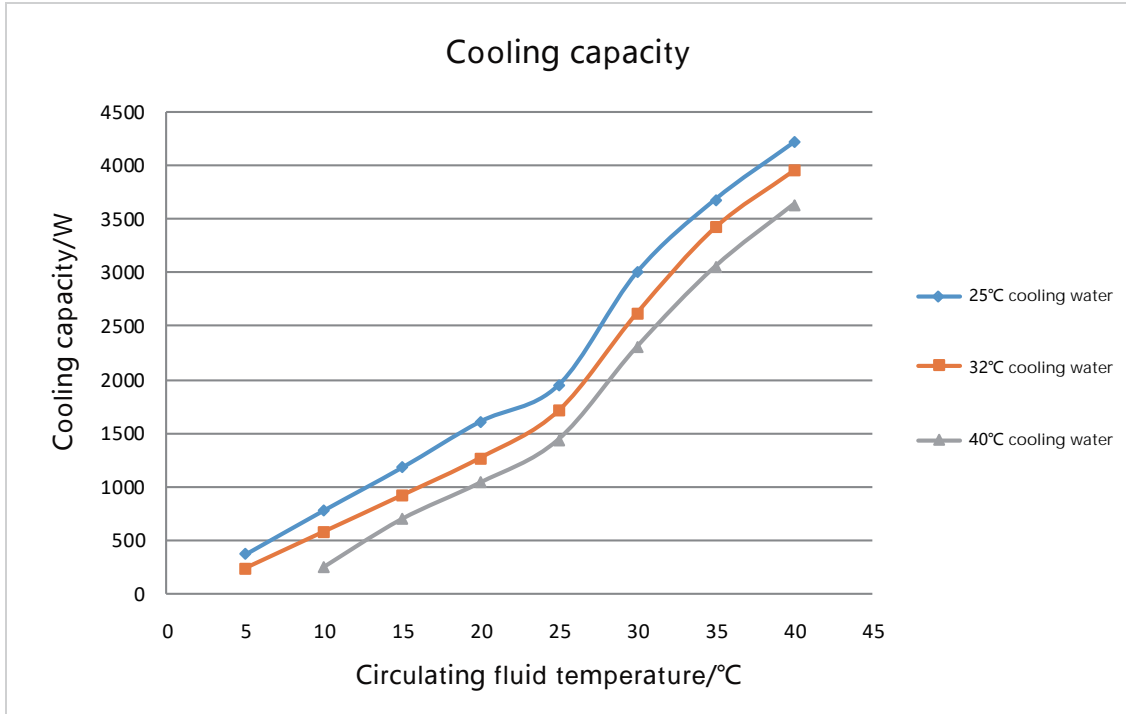


Dimensions

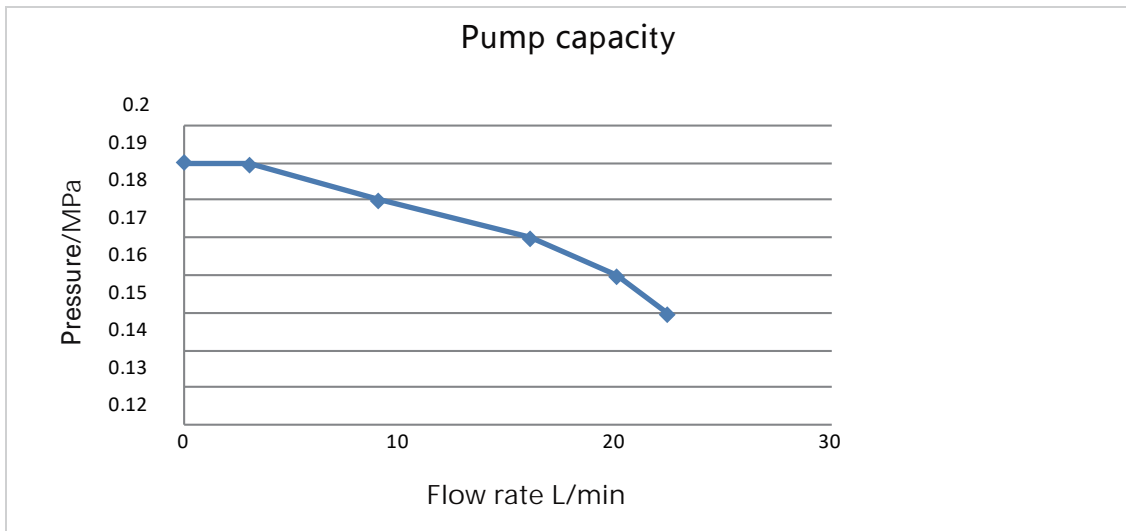


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Performance curve



Cooling performance



Pump performance