

# FCCWS041-7402



Model		FCCWS041-7402	
Cooling method		Vapor compression refrigeration	
Radiating method		Water-cooled	
Control method		PID	
Ambient temperature/humidity		5°C-40°C, 30-70%RH	
Temperature range		-20°C-80.0°C	
Performance	Cooling capacity※1	Ambient temperature25°C, Set temperature-20°C	4.4kw
	Heating capacity	Ambient temperature25°C, Set temperature20°C	3.0kw
	Temperature stability ※2		±0.1°C
	Refrigerant		R410a
Main components	Compressor	Type	Rotary type
		Power	3.0kw
	Condenser	Type	Plate heat exchanger
		Material	SUS316
	Throttling device		Electronic expansion valve
	Evaporator	Type	Plate heat exchanger
		Material	SUS316
	Water tank volume		15L
	Pump	Type	Magnetic drive pump
		Power	1.5kw
Flow rate(outlet) ※3		25L/min	
Lift(outlet)		60m	
Circulating fluid system	Type		Ethylene glycol solution/Fluorinated liquid
	Wetted parts material		SUS304
	Inlet/outlet port size		Rc3/4
	Drain port size		Rc1/2
Facility water system	Temperature range		5.0°C-25.0°C
	Pressure range		0.3MPa-0.7MPa
	Required flow rate ※4		17L/min
	Fluid contact material		SUS304, copper
	Port size		Rc3/4
Electrical system	Power supply ※5		AC208V±10%, 50Hz/60Hz 3-phase
	Rated current ※6		27A
	Rated power※6		8.6kw
Overall dimensions		650mm*390mm*1289mm	
Packaging dimension		≈1120mm*590mm*1490mm	
Weight		≈100 kg	
Noise ※7		70dB (A)	
Special requirements		/	

※1 ① Ambient temperature: 25°C, ② Circulating liquid temperature: -20°C/20°C, ③ Circulating liquid outlet flow 14L/min, ④ Circulating liquid: 3283 fluorinated liquid, ⑤ Cooling water temperature: 25°C; ⑥ Cooling water flow: 17L/min;

※2 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 ;

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

※4 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;

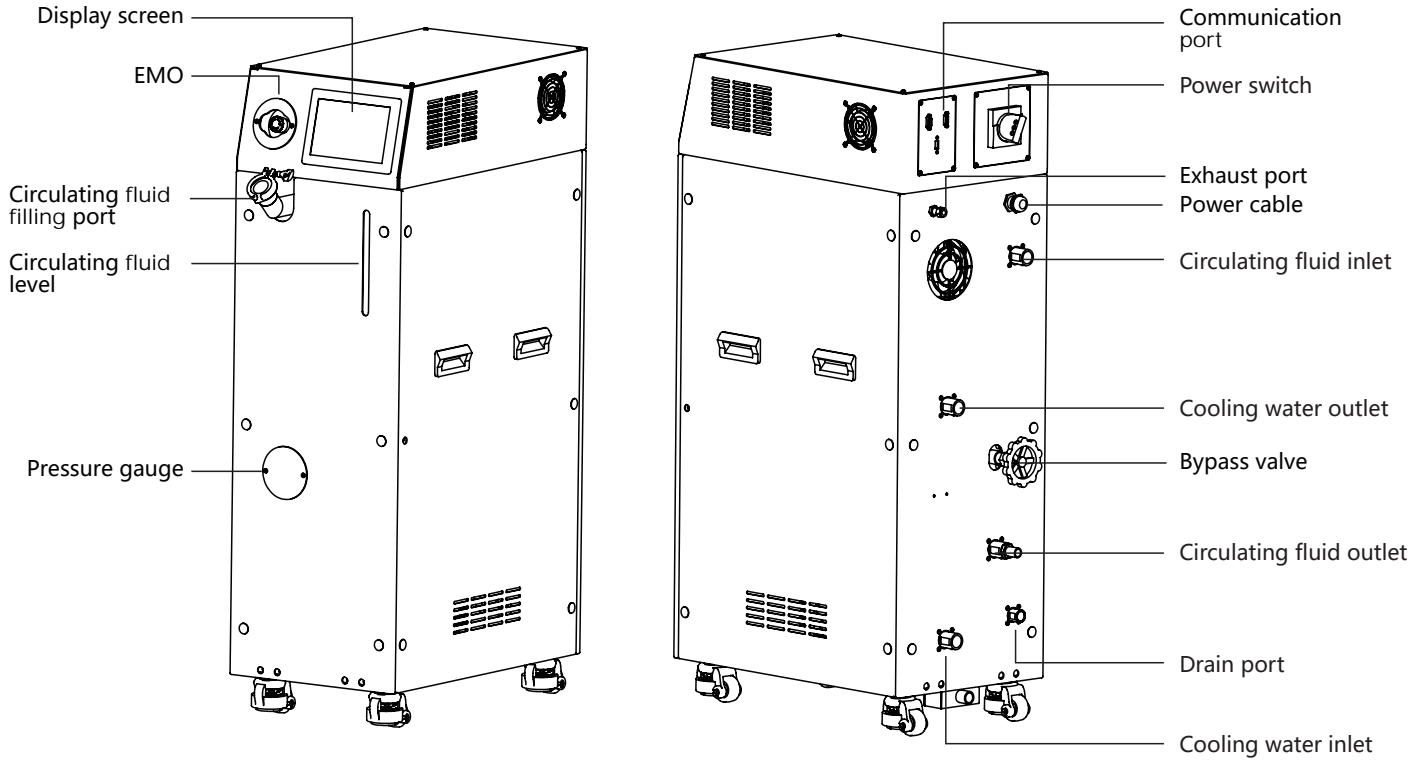
※5 No continuous voltage fluctuation;

※6 Standard test current condition;

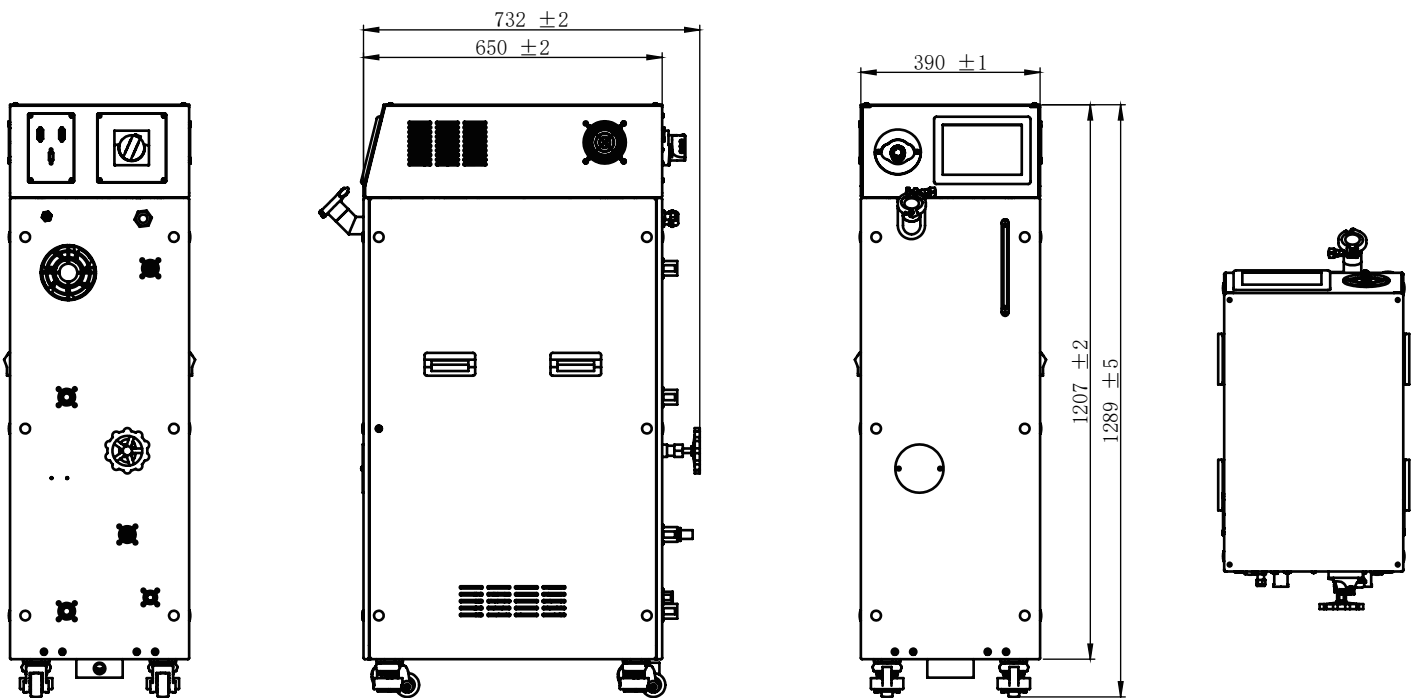
※7 Front 1m, height 1m, stable without load.

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## Parts introduction

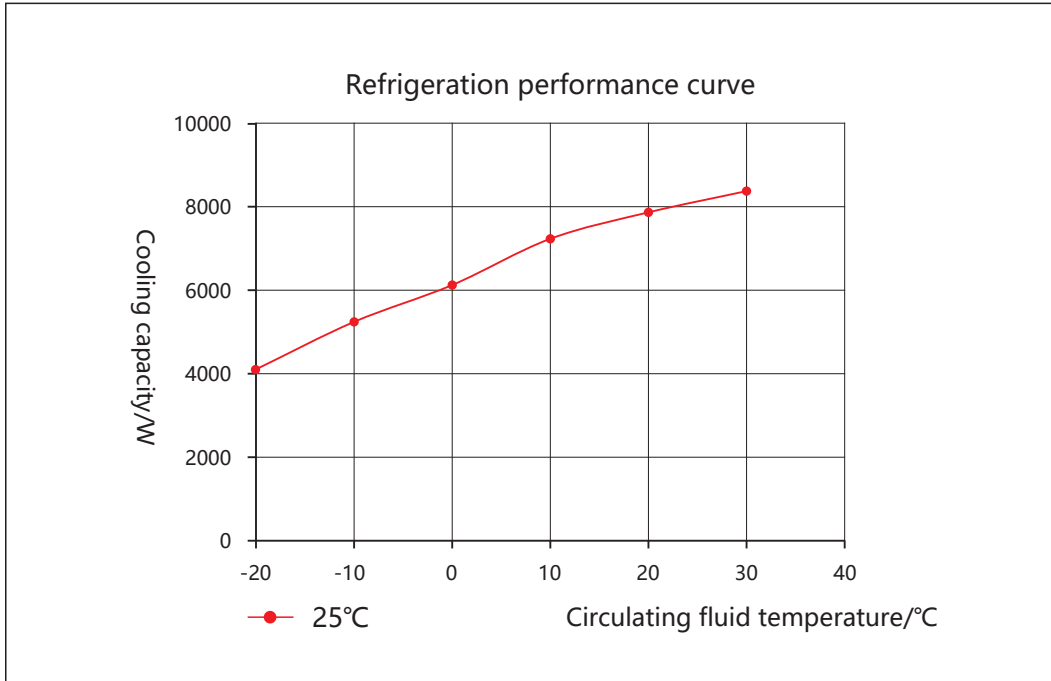


## Dimensions

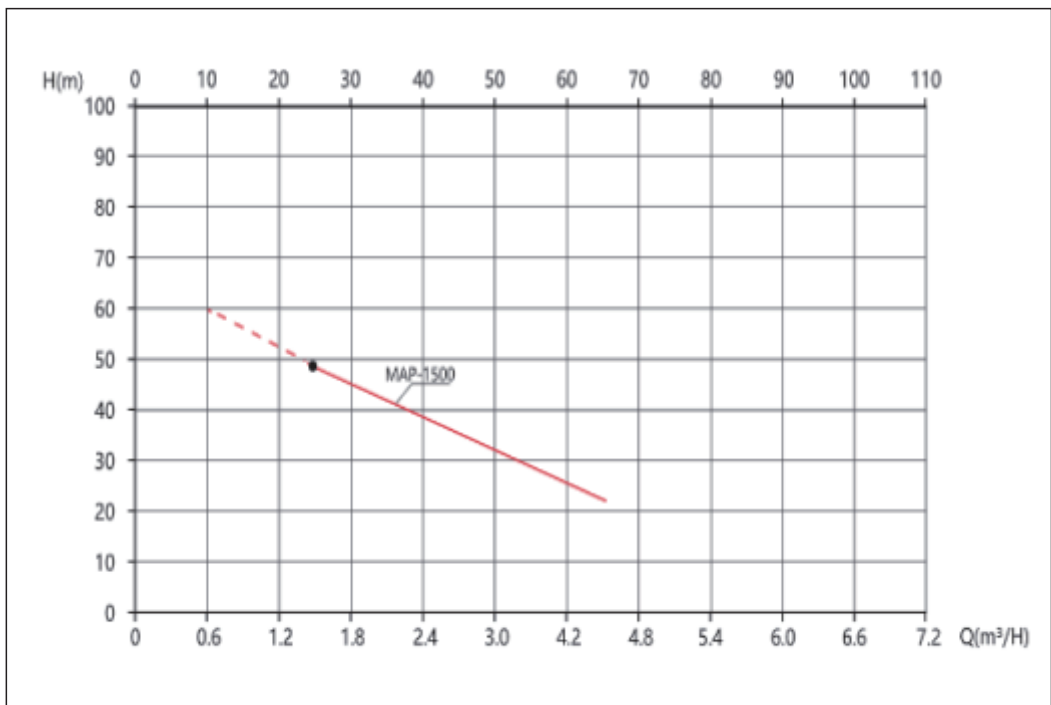


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## Performance curve



Cooling capacity



Pump