

FCCWS051-7402



Model		FCCWS051-7402	
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 temperature 25°C, Set temperature -20°C	4.4kw
	Heating capacity	Ambient temperature 25°C, Set temperature 20°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	SUS304
	Throttling device		Electronic expansion valve
	Evaporator	Type	Plate heat exchanger
		Material	SUS304
	Water tank volume		15L
Pump	Type	Magnetic drive pump	
	Power	1.5kw	
	Flow rate (outlet) ※3	25L/min	
	Lift (outlet)	30m	
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 rate: 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;

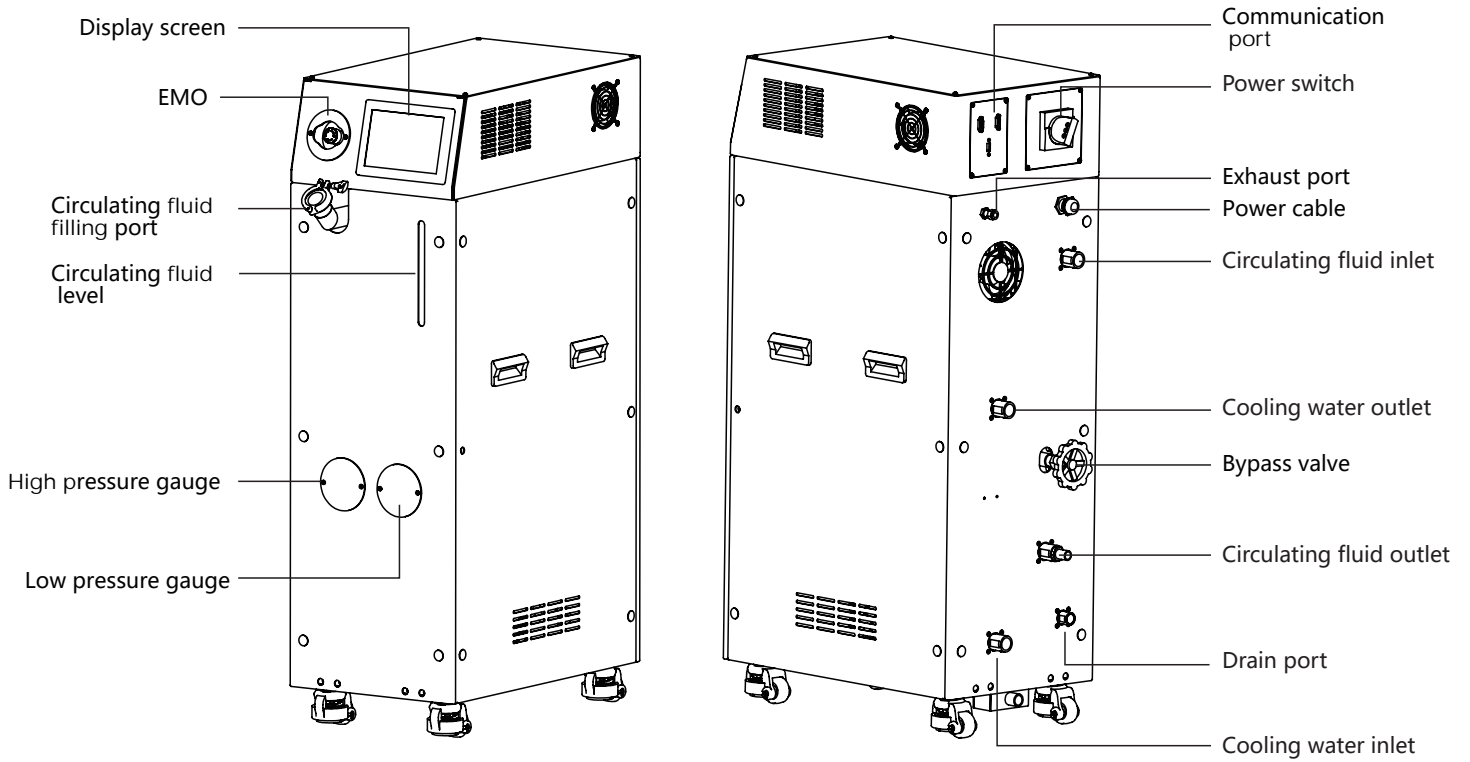
※5 No continuous voltage fluctuation ;

※6 Standard test current condition;

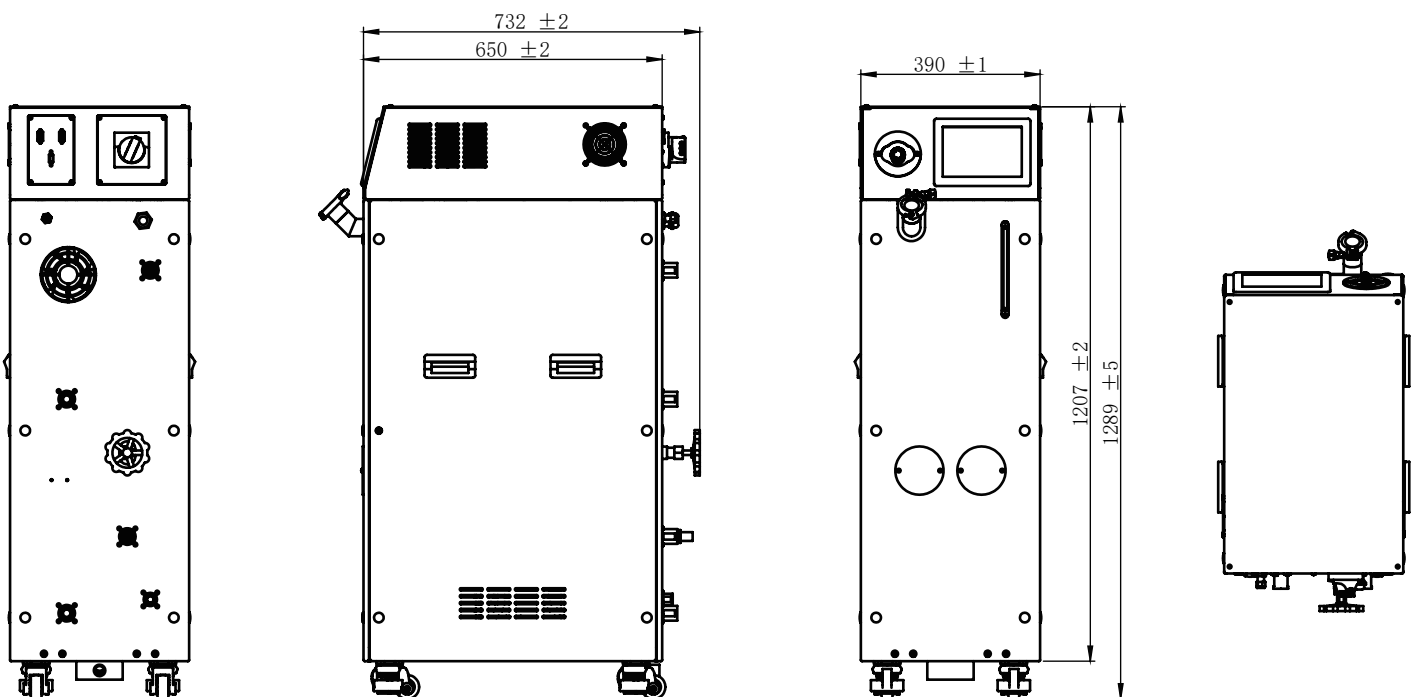
※7 Front 1m, height 1m, stable without load.

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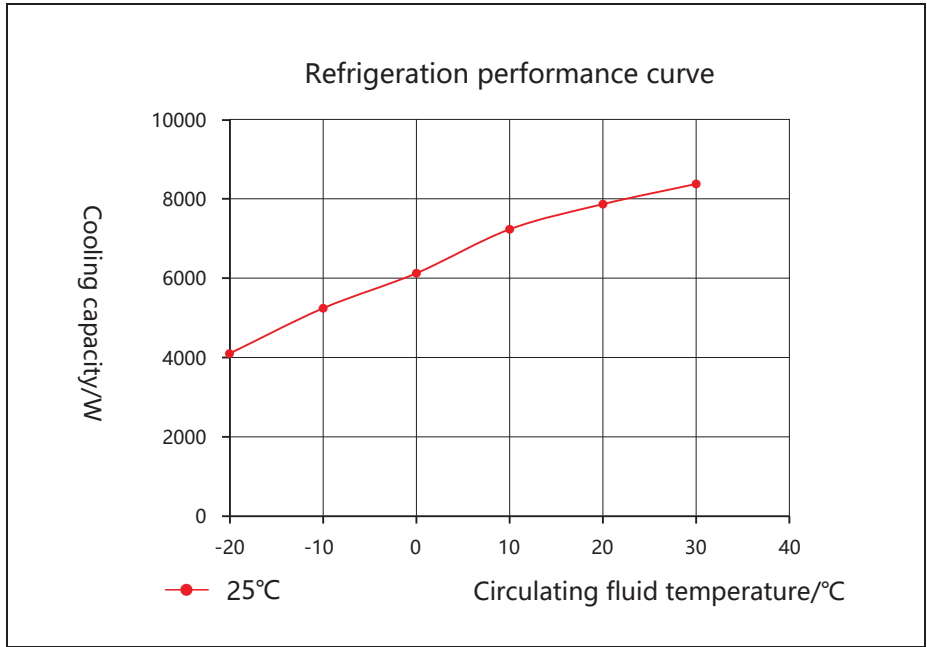
Parts introduction



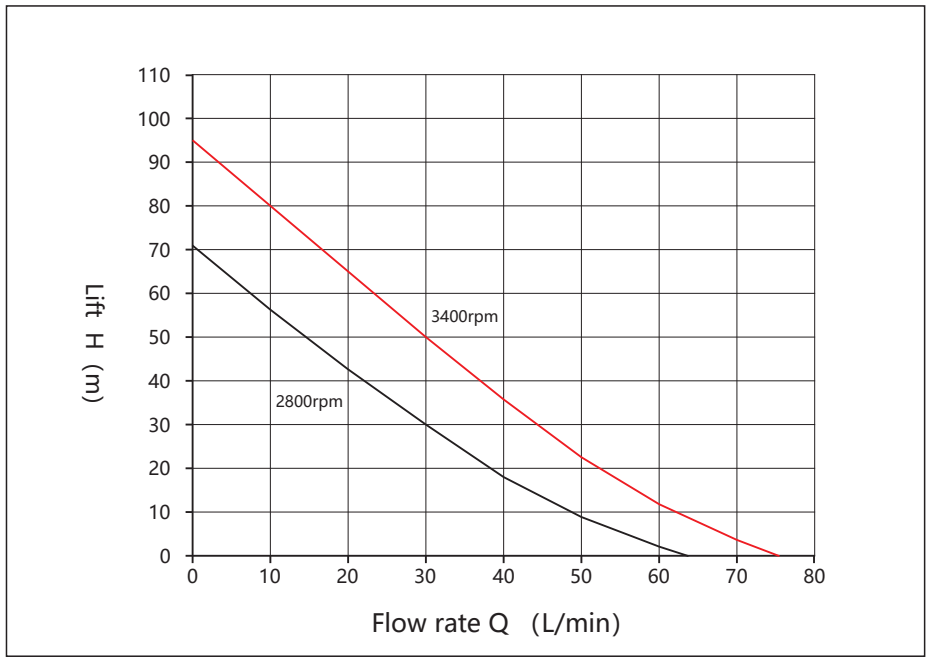
Dimensions



Performance curve



Cooling capacity



Pump