



## Vapor compression refrigeration-Type Chiller

Model		FCCA10331-9601		
		CH1	CH2	
Cooling method		Vapor compression refrigeration		
Radiating method		Air-cooled		
Control method		Cooling/Heating Automatic shift PID control		
Ambient temperature/humidity		5°C-45°C, 30-70%RH		
Refrigerant		R410A		
Quantity of Refrigerant		1.4 kg		
Circulating fluid system	Circulating fluid		Clean water/Pure water	Clean water/Pure water
	Operating temperature range		5.0°C-35.0°C	10.0°C-40.0°C
	Cooling Power※ 1		≥9kW (20°C)	≥1kW (25°C)
	Heating Power※ 2		≈1kW (20°C)	≈1kW (25°C)
	Temperature stability※ 3		±0.1°C	±0.5°C
	Pump	Rated flow rate (Outlet)	45L/min (0.43MPa)	10L/min (0.45MPa)
		Maximum flow rate	120 L/min	16 L/min
		Maximum lift	50m	50m
	Settable pressure range※ 4		0.1 to 0.5 Mpa	
	Minimum necessary flow rate※ 5		20 L/min	2 L/min
	Tank capacity		Approx. 42L	Approx. 7L
	Port size	IN/OUT	Rc1	Rc1/2
		Tank drain port	Rc1	Rc1/2
Wetted parts material		CH1 : Stainless steel, Copper, PP, POM, PU, PVC, EPDM, PC, NBR CH2:Stainless steel PP, POM, PU, PVC, EPDM, PC, NBR, Ion exchange resin		
Electrical system	Power supply		3-phase 380 to 415VAC (50 /60 Hz) Allowable voltage range ±10%(No continuous voltage fluctuation) 3-phase 460 to 480VAC(60Hz) Allowable voltage range +4%, -10% (Max. voltage less than 500V and no continuous voltage fluctuation)	
	Overcurrent protection		40A	
	Rated current		10 A (380V/60Hz)	

	Rated power consumption	7kW(380V/60Hz)
	Communications	LAN, RS232, RS485
	Size	954mm×715mm×1538mm (WxDxH)
	Weight	Approx. 350kg
	Accessories	/

※ 1 ① Ambient temperature:32°C, ② Circulating fluid: Clean water, ③Circulating fluid temperature: CH1 20°C /CH2 25°C, ④ Circulating fluid flow rate: Rated flow rate, ⑤ Power supply: 380 VAC.

※ 2 ① Ambient temperature:32°C,② Circulating fluid: Clean water,③Circulating fluid flow rate: Rated flow rate,④ Power supply: 380 VAC.

※ 3 ①Ambient temperature:32°C,②Circulating fluid: Clean water, ③Circulating fluid temperature: CH1 20°C /CH2 25°C, ④Load: Refer to the specified cooling capacity, ⑤ Circulating fluid flow rate: Rated flow rate, ⑥ Power supply: 380 VAC, ⑦Piping length: Minimum.  
 ※ 4 With the pressure control mode that controls the pressure automatically with the inverter.If the pressure control mode is not necessary, use the flow control function or the pump output setting function.

※5 Required flow rate to maintain the cooling capacity. When the flow rate is lower than the rated flow, use a by-pass piping set.



