



Precision Chiller

Model **RJ-CA**



Global Warming Potential GWP = 1
Compliance with new US regulations



Temperature Stability $\pm 0.1^{\circ}\text{C}$
Repeatable chamber conditions
under heat load fluctuations



Energy Saving
Efficient Inverter control



Heat Transfer Fluids
Engineered for Fluorocarbon
and non-PFAS fluids



Compact Design
Flexibility and rack mount



Local Service and Support
Repairs & exchange by Ebara's
sub-fab service network



Refrigerant
R744
CO₂



Specifications

Model	RJ-CA1V-MS		
Performance	Temperature control range	°C	-20 to 70
	Temperature control accuracy	°C	±0.1
	Cooling capacity (50/60 Hz)	kW	3.8 (7.5@ circulating fluid 20°C)
Installation	External dimensions (H × D × W)	mm	1,080 × 950 × 370
	Product weight (dry)	kg	190
	Operating ambient temp / humidity	°C, %	10 to 35°C / 30 to 55%
Circulating Fluid	Operating pressure	MPa	0.9 or less
	Connection size inlet/outlet		Rc3/4
Facility Water	Operating temperature range	°C	10 to 25
	Operating pressure	MPa	0.3 to 0.69
	Connection size inlet/outlet		Rc1/2
Electrical Power	Power supply	V(Hz)	Three phase 200 to 208 ± 10% (50/60 Hz)
	Current	A	18
	Power supply capacity	kVA	7.7
Equipment Details	Operation control method	Electronic expansion valve capacity control	
	Refrigerant control system	Cooling / Heating electronic expansion valve	
	Refrigerant	g	1200 (R744 GWP: 1)
	Temperature controller	Digital electronic temperature controller	
	Temperature sensor	Thermistor	
	Facility water control unit	Motor-operated valve	
	Fluid tank actual capacity	L	Normal use: 15 to 17 (max. 31)
Comms	Standards	Compliant with EIA standard RS-422A/485	
	Maximum number of connected units	RS-422A/RS-485: 32 units	
Safety Devices	Main circuit	Earth leakage breaker (30A, 30mA)	
	Compressor	Overcurrent relay, electronic thermal	
	Discharge pump	Overcurrent relay, electronic thermal	
	Refrigerant circuit	High-pressure switch	
	Leakage detection	Leak sensor	
	Standards Compliance	NRTL/CSA, CE, SEMI (S2,S8,F47)	

