



Low-floor lab cube cooling circulator with two circulation systems. Possible to install under the fume hood or sink.



The product stably supplies low temperature water to the sealed piping of various research devices, analysis and measuring devices with a refrigerator and a circulation pump.

Operating Temp. Range
-20 deg.C to room temp.
Cooling Capacity
940W (at liquid temp.: 10 deg.C)

- Non-Freon refrigerant R404A that conforms to the regulations on specific Freon.
- Settings and display is made digitally on the operation part, which also has a timer function.
- The circulation water flow adjusting cock, the discharge cock, and an overflow discharge port, an over current electric leakage breaker is located on the front of the unit and thus enable easy operation.

■ Specifications

Model		CF820
System		External sealed circulation
Performance		
Operating temp. range		-20 deg.C to room temp.
Temp. adjustment accuracy		+/-1.5deg.C (JTM K05/JIS) at 10deg.C
Cooling capacity		Approx. 940W (810 Kcal/h) at liquid temp: 10 deg.C
		Approx. 820W (706 Kcal/h) at liquid temp 0 deg.C
		Approx. 710W (612 Kcal/h) at liquid temp: -10 deg.C
Configuration		
Temperature control		Refrigerator ON-OFF control
Temperature sensor		T-thermocouple (with SUS protective tube)
Temp. and time setting		Digital setting and display
Refrigerator/coolant		Air-cooled 600W R404A
Circulation pump		With a magnet pump 127W
Unit circulation performance	Max. flow (pump capacity)	9.2/10.8L/min (30 L/min)
	(50/60 Hz)	
	Max. lift	9.6 /13.3m (10.3/14.3m)
	(50/60 Hz)	
Heat exchanger		Blazing plate SUS316
External Circulation Nozzle		O.D. 10.5mm (SUS, 2 for each of I/O, with a stop valve)
Operating environment temp. range		5 - 35deg.C
Function		
Safety functions		Over current electrical leakage breaker, refrigerator over load relay, pump thermal protector, delay timer for protecting refrigerator, H bypass for protecting pump
Other functions		Drain valve (O.D. 10.5), overflow (O.D. 10.5), dust filter, key lock, calibration, power failure compensation, settlement function.
Standards		
Interior tank		Stainless, approx. 6.5L(liquid volume 6L) with overflow
Power source		AC100V 50/60Hz, 9.8/9.3A (15A)
External dimensions		W570 x D440 x H600
Weight		Approx. 60kg
Accessory		
Accessories		Top cover, drain hose, circulation hose 1.5m x 4pcs, overflow hose, wire clamp 4pcs

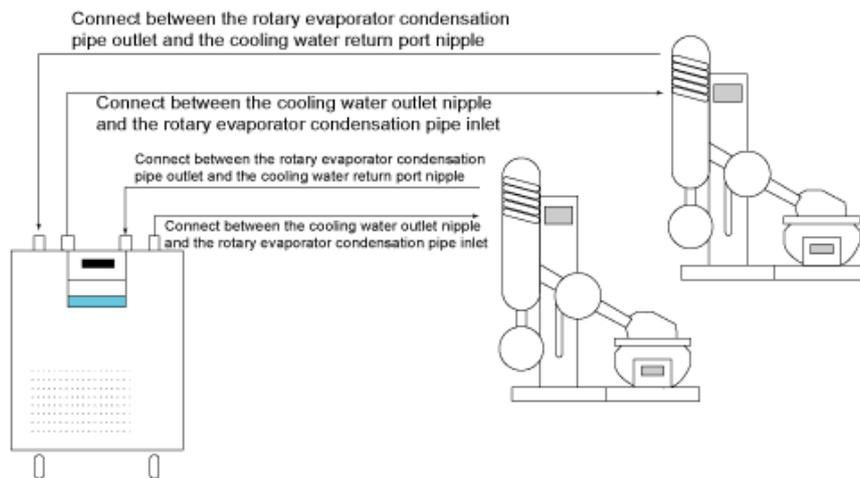
■ Control panel



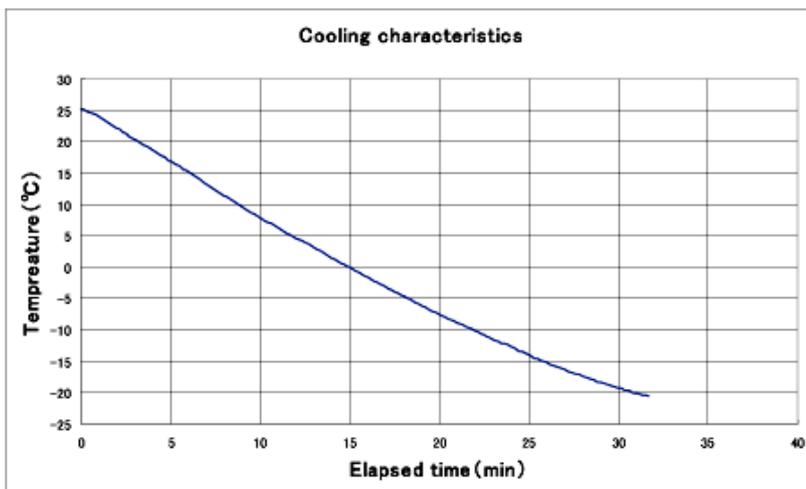
■ Circulation hose connecting port



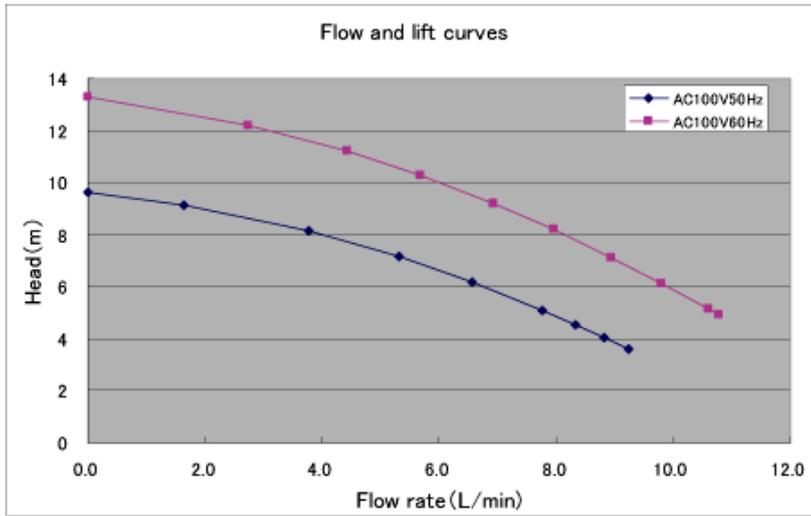
■ Example system configuration



■ Cooling curve



■ Flow/lift curve



■ Optional items

Description	Product Code
Circulation heat insulation hose (high insulation type, I.D., 6mm, 2m X 2)	221595
Circulation heat insulation hose (I.D., 9, 2mm X 2)	221581
Circulation heat insulation hose (high insulation type, I.D. 9mm, 2m X 2)	221599
Hose nipple (O.D., 8mm Rc3/8)	221596
Hose nipple (O.D., 10.5mm Rc3/8)	221394
Hose nipple (O.D., 13mm Rc3/8)	221399
Hose nipple (O.D., 16mm Rc3/8)	221395

■ Heat insulation hose (optional part)



■ Dimensional drawing (mm)

