

Large Capacity Cooling Water Circulator

C-142

Example of applications: Cooling a dicer blade for semiconductors (QFN package)



- 375L of large effective capacity of the main tank
- Greatly extends lifetime of expensive dicer blades
- Continuously supplies clean cooling water through a filtering mechanism equipped with a sub tank
- Discharges water after removing microorganisms with automatic cleaning with a filter
- Equipped with an exhaust fan that exhausts air cooling exhaust heat of the freezer outside the room
- Equipped with a signal tower and an emergency stop switch

■ Specifications

Product name		Large Capacity Cooling Water Circulator C-142
System		External open system circulation with a pump
Performance	Operating temperature range	4 to 22deg.C (during self circulation)
	Temperature adjusting accuracy	±1deg.C at liquid temperature of 7deg.C
	Temperature indication unit	0.1deg.C
	Cooling capacity	2732 kcal/h (at cooling from 22deg.C to 5deg.C)
Configuration	Temperature control	On-Off control
	Temperature sensor	Pt100Ω (for temperature control)
	Temperature setting/display	Digital setting/display
	Freezer and cooling medium	Air cooling system: 2.2 kW R407C
	Circulation pump	Soaking type coolant pump
	Filter pump	Magnet pump
	Unit circulation capacity	Maximum flow (pump capacity) 24/30 L/min. (40/50 L/min.)
	(50/60 Hz)	Maximum lift (pump capacity) 30/30m (50/50m)
	Circulation nozzle	O.D.: 20.5 mm
Operating environmental temperature range	5 to 35deg.C	
Safety units		Electric leakage breaker, error display lamp, alarm, emergency stop switch, thermal relays (for pump/freezer)
Other functions		Level sensor, ceiling exhaust fan, pressure meter, flow meter, reverse cleaning cartridge filter system, manual valve for discharging tank water
Accessories		Circulation tube in unit (φ12) x 1m, heat insulator for condensation on pipes x 2m
Standards	Effective bath volume	375L
	External dimensions	W1100 x D1500 x H1800 mm (excluding protrusions)
	Power supply	3-phase AC200V 50/60 Hz 15A
	Weight	Approx. 400 kg

■ Front operation panel



■ Front operation panel

