

Coolnics® Circulator (Non-Freon Cooling Type) Integrated circulation unit

CTW401/801 • CTA401/801

Cooling system	Operating temp. range
Water cooled type (CTW)/Air cooled type (CTA)	-10 to +70deg.C(CTW)/0 to +70deg.C(CTA)
Temp. adjusting accuracy	Max. pump flow
±0.1deg.C	8 L/min (CTA/CTW 401)/11 L/min (CTA/CTW801)

Compact integrated accuracy constant temperature water circulator operable both as a desktop type and integrated in a unit.

Constant temperature water circulator integrated with the cooling/heating assembly and the power control assembly and being able to precisely control constant temperature water at around room temperature. It uses a freon-free cooling system and is environmentally friendly as well as supports free power supply from AC100V to AC230V.



■Features

- This product is a circulating type and can be used as a constant bath that can cool, heat, and retain heat of your bath.
- RS485 communication function equipped as standard allows centralized management with a PC.
- Water cooled heat discharge system (CTW) and Air cooled type (CTA) that does not need any tap water are available.
- Selectable from different cooling capacities and pump capacities according to the specific applications.

- Free power supply from AC100V to 230V. Power plug or adapter is option for AC200V to 230V.

■Functions

Fixed value operation, program operation, auto stop operation, quick auto stop operation, auto start operation, external sensor control, external communication function, alarm output, etc.

■ Specifications

Product code		221357	221359	221356	221358	
Model		CTW401	CTW801	CTA401	CTA801	
System		Water cooled electronic system Integrated external open circulation		Air cooled electronic system Integrated external open circulation		
Performance	Operating temperature range	-10 to +70deg.C		0 to +70deg.C		
	Temperature adjusting accuracy	±0.1deg.C				
	Cooling capacity	125 Kcal/h (145W)	250 kcal/h (215W)	80 kcal/h (93W)	160 kcal/h (186W)	
	Pump capacity	Maximum flow	8 L/min	11 L/min	8 L/min	11 L/min
Max. discharge pressure		29.4 kPa	78.4 kPa	29.4 kPa	78.4 kPa	
Configuration	Temperature control	PID control with a micro computer CR5A-CT (4-20 mA control) Interactive digital setting and display				
	Control sensor	Platinum resistance temperature detector (Pt100Ω)				
	Timer function	1 min to 99 hrs 50 min, 100 to 9999 hrs (with time/clock switching function)				
	Operation function	Fixed value operation (with the pause function), fixed value auto stop operation, quick auto stop operation, fixed value auto start operation, program operation (99 steps, with the step separation function, repeat, gradient operation, etc.), program auto start operation				
	Other functions	Self diagnostics function, RS485 external communication function, alarm output terminal, calibration offset function, power failure compensation function, power energy and electric power charge records display function, external temperature sensor switching, operation guidance function, etc.				
	Material of cooling/heating unit liquid contact part	Stainless steel (SUS304)				
	Safety unit	Over current electric leakage breaker, key lock function				
Standards	External size (mm)	W291 x D380 x H360	W331 x D480 x H380	W291 x D380 x H360	W371 x D440 x H380	
	Circulation port nipple diameter	O.D.: 12.7φ				
	Number of thermo module	4	8	4	8	
	Power supply (50/60Hz) Rated current	At AC100V	6A (15A)	10A (15A)	5A (15A)	9A (15A)
		At AC120V	5A	8.4A	4.2A	7.5A
		At AC200V	3A	5A	2.5A	4.5A
		At AC220V	2.8A	4.6A	2.3A	4.1A
At AC230V		2.5A	4.2A	2.1A	3.8A	
Weight	Approx. 19.5 kg	Approx. 29.5 kg	Approx. 24 kg	Approx. 36 kg		
Accessories	Heat insulation hose for circulation water of I.D.11.5φ x 1m x 2 100V power cord (with a 3P plug)					
Optional parts	External sensor JPt100Ω(cable length: 3m)					

■ 200V power cord (without plug) set

Product code	221611	221612	221613	221614
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