

Coolnics Circulator (Non-Freon Cooling Type) Separate type  
CTW401S/801S, CTA401S/801S

**CTW401S/801S, CTA401S/801S have been discontinued.**



Cooling system
Water cooled type (CTW-S)/ Air cooled type (CTA-S)
Operating temp. range
-10 to +70deg.C(CTW-S)/ 0 to +70deg.C(CTA-S)
Temp. adjusting accuracy
±0.1deg.C
Max. pump flow
8 L/min (CTA/W-S 401)/ 11 L/min (CTA/W-S 801)

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

Constant temperature water circulator with separate cooling/heating assembly and 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		221361	221363	221360	221362	
Model		CTW401S	CTW801S	CTA401S	CTA801S	
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		
	Temp. adjustment 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)	Heat exchanger assembly	W291 x D360 x H175	W311 x D480 x H202	W291 x D380 x H190	W361 x D410 x H265
		Power supply control assembly	W291 x D342 x H195			
	Circulation port nipple diameter		O.D.: 12.7φ			
	Number of thermo module		4	8	4	8
	Power supply	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	Heat exchanger assembly	Approx. 12.5 kg	Approx. 20 kg	Approx. 16 kg	Approx. 30 kg	
	Power supply control assembly	Approx. 10 kg				
Accessories	Heat insulation hose for circulation water of I.D.11.5φ x 1m x 2, Heat radiation hose I.D.:12 mm x 3m x 1, 100V power cord (with a 3P plug)					
Optional parts	External sensor JPt100Ω(cable length: 3m)					

## ■ 200V power cord (without plug) set

Product code	221615	221616	221617	221618
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