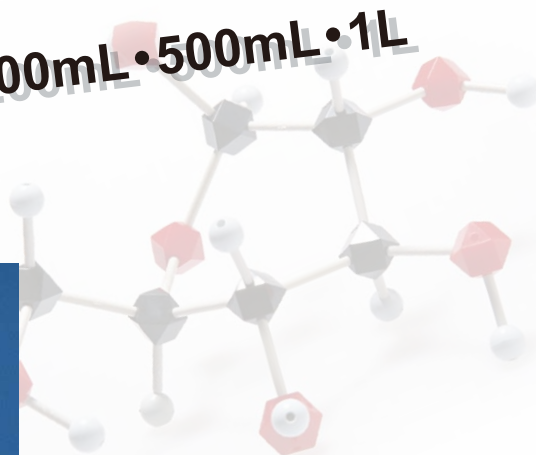


LIQUID PHASE SYNTHESIZER "CHEMIST PLAZA CP-300"

Heating/Cooling controlling system with
aluminum block

Sample volume: 120mL • 200mL • 500mL • 1L

Programming etc...



Example of 200mL set



Example of 1L set

Please feel free to contact us for special order such as
Changing size of separable cover mouth
Attachement of stick stirrer
External attachement of over-heating prevention

This new type of aluminum block controlling system replaces your conventional oil bath and mantle heater

Main controller



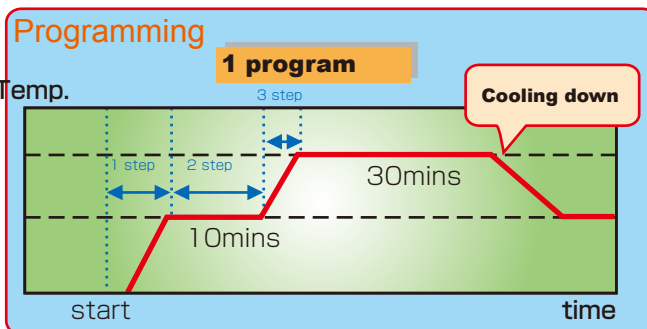
Main controller Chemi-Chemi-300



Back of controller (outputs)

Characteristics

- Aluminum block and main controller can be used separately.
- It does not use heat medium.
- Temperature range: $-30\sim 200^{\circ}\text{C}^{*1}$
- Temperature, stirring speed, and time are programmable. Low-temperature reaction and cooling sample down after reaction are also possible.^{**1}
- Heating temp., sample temp., and stirring speed can be recorded by connecting data logger to the power output.



Main body display



Besides the display of heating temp. and stirring speed, it shows sample temp. by using optional temp. sensor.

- ① Display: It shows heating temp., speed, and programed steps
- ② MODE key: Used to change between manual and program mode
- ③ SET key: Used to set the program
- ④ TIMER key: Used to set time in manual and program mode

- ⑤ START/STOP key: ON/OFF switch for heating block
- ⑥ Speed adjusting volume: Used to set stirring speed
- ⑦ External sensor temp. display
- ⑧ External sensor switch
- ⑨ POWER switch

Specification

Model	CP-300 Main body set 200mL	CP-300 Main body set 1L
Main controller	Chemi-Chemi-300 (Code No. : 054300-300)	
Reaction container	200mL / 120mL (Adapter needed ^{**1})	1L / 500mL (Adapter needed ^{**1})
Temp.	Setting range	$-30\sim 200^{\circ}\text{C}^{*2}$
	Setting accuracy	$\pm 0.5^{\circ}\text{C}\sim$
	Display method	Digital LED display (Actual temp. of sample can be displayed by using optional sensor)
Revolution	Setting range	50~1500rpm
	Setting accuracy	Ferromagnetic stirrer method
	Display method	Digital LED display
External temp. sensor	1 connection of platinum thermo resistance is available (sensor is optional)	
Programming function	9steps×9patterns are available for temp., time, and revolution	
Analogue output	DC4~20mA	
Coolant connection nozzle	Outside diameter $\phi 10.5\text{mm}$	
Reaction observation	Observation possible from slit of aluminum block	
Safety measures	Polycarbonate safety cover, drip receiving tray, over heating/cooling warnings	
Stirrer	Oval edge shape $\phi 16\times 38\text{mm}$	
Dimension	Controller	160 (W) × 300 (D) × 124 (H) mm
	Block	160 (W) × 350 (D) × 186 (H) mm
Weight	Body approx. 5.1kg · Block approx. 6.5kg	Body approx. 5.1kg · Block approx. 11.3kg
Power	AC100V 50/60Hz 5A	AC100V 50/60Hz 9.7A
Code No.	054300-3200	054300-3300

Main body set



Containers are sold separately

^{**1} When 120mL and 500mL are used, optional heating block adapter is needed.

^{**2} Low-temperature circulator is needed to control temperature lower than room temp. +10°C

^{*} Reaction containers are sold separately.

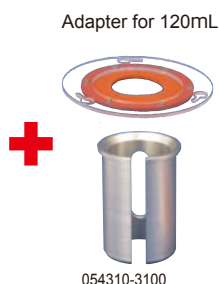
Cooling down by low-temperature circulator

For any special order request, please feel free to contact us anytime.

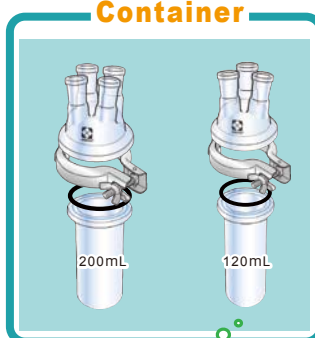
■ Heating block and container

200 • 120mL type

Heating block



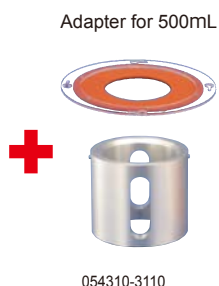
Container



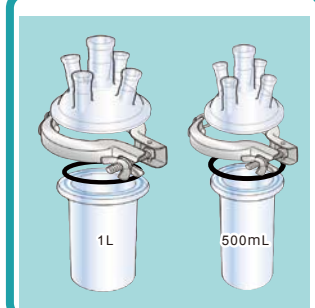
Round bottom container is suitable for changing reaction scale

1L • 500mL type

Heating block



Container



Solvent-proof UP

Polycarbonate cover



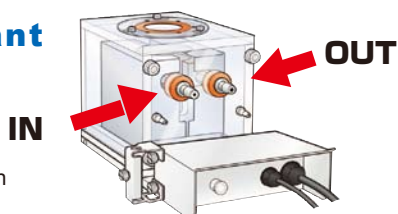
Solvent-proof



Nozzle for coolant

- Low-temperature reaction is possible by connecting to low-temperature circulator.
- Preventing heating from reaction by coolant

※It can be hard to control temperature depending on its thermal condition.



■ Peripheral equipment

CS-340

C-331



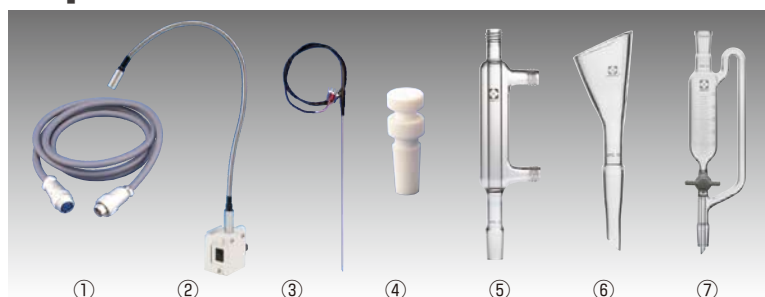
Name	CS-340	C-331
Code No.	051140-340	051140-331
Temp. setting range	-45~-5°C	-20~+20°C
Cooling power	200W(-20°C)	500W(-5°C)

※Values are taken at 20°C, and AC100V50Hz.

■ Layout example








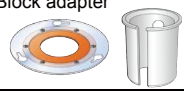
■ Option



No.	Name	Code
①	Extension cable, 1.5m set	054310-3002
②	LED light for Chemi-Chemi300	054310-3003
③	Temperature sensor(PTFE coated)	054310-3004
④	Temperature sensor adapter	054310-3005
⑤	Condenser, Liebig, SPC-15 GL14	054330-5100
⑥	Funnel, SPC-15	054330-5200
⑦	Dropping funnel 50mL	054330-5300

List of Chemist Plaza parts

Category	Name	Code No.	CP-300 Main body set	
			200mL	1L
 Set composition	Main controller only, ChemiChemi-300	054300-300	●	●
	Heating block only, 200mL	054300-3210	●	—
	Heating block only, 1L	054300-3310	—	●
	Magnetic stirrer, 1pc.	054310-3001	●	●
Code No. as set			054300-3200	054300-3300

Category	Name	Code No.	Glass set			
			200mL	120mL	1L	500mL
 Glass container	Separable container, O-type, 120mL	054330-1120	—	●	—	—
	Separable container, O-type, 200mL	054330-1200	●	—	—	—
	Separable container, O-type, 500mL	054330-1500	—	—	—	●
	Separable container, O-type, 1L	054330-1600	—	—	●	—
 Cover	Separable cover for stirrer, $\Phi 47$ 3 mouths, S P C-15, O-type	054330-2100	—	●	—	—
	Separable cover for stirrer, $\Phi 56$ 4 mouths, S P C-15, O-type	054330-2200	●	—	—	—
	Separable cover for stirrer, $\Phi 86,5$ mouths Main tube: S P C-24, Others: S P C-15, O-type	054330-2300	—	—	—	●
	Separable cover for stirrer, $\Phi 116,5$ mouths Main tube: S P C-29, Others: S P C-15, O-type	054330-2400	—	—	●	—
 O-ring	O-ring for $\Phi 47$, G-55 1pc.	054330-3100	—	●	—	—
	O-ring for $\Phi 56$, G-65 1pc.	054330-3200	●	—	—	—
	O-ring for $\Phi 86$, G-95 1pc.	054330-3300	—	—	—	●
	O-ring for $\Phi 116$, G-130 1pc.	054330-3400	—	—	●	—
 Band	Clamping metal band, $\Phi 47$ mm	054330-4100	—	●	—	—
	Clamping metal band, $\Phi 56$ mm	054330-4200	●	—	—	—
	Clamping metal band, $\Phi 86$ mm	005930-85	—	—	—	●
	Clamping metal band, $\Phi 120$ mm	005930-120	—	—	●	—
 Block adapter	Heating block adapter for 120mL (With rotation prevention cover)	054310-3100	—	Sold separately	—	—
	Heating block adapter for 500mL (With rotation prevention cover)	054310-3110	—	—	—	Sold separately
Code No. as set			054330-0020	054330-0012	054330-0100	054330-0050

● : Comes with set

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