

## Personal Organic Synthesizer Zodiac CCX-3200



CCX-3200

Zodiac CCX-3200 is designed to control stirring of up to eight reactors (from 0.5mL to 60mL) in parallel.

### Features

- No. Of positions; 1-8 positions (Max. 32 vessels). Synthesis scale; 0.5mL-60mL.
- Wide temperature control range from RT+10°C to 280°C (200°C for the scale of 50-60mL).
- Gas purge function is strengthened by the use of sealing tube, Shrenk tube, pressure vessel and Dean-Stark trap.
- Cold water manifold and Dimorth condenser realize strong and efficient reflux experiment.

### Specifications

Product name		Personal Organic Synthesizer Zodiac
Model		CCX-3200
Cat. No		212960
Available number of reaction vessels		1 to 8 pcs (Max.32)
Synthesis scale		0.5mL to 60mL
Stirring system		Ferromagnetic stirrer
Performance	Temperature control range	From RT +10°C to 280°C (50 to 60mL: 200°C)
	Range of stirring speed	100 to 1200rpm (water)
	Temperature setting, display	Membrane pad key, digital display
	Stirring speed setting, display	Setting by volume knob, digital display
	Gas purging system	By reducing pressure and replacing air by inert gas
	Refluxing	No refluxing/Cooling water manifold*2
	Sample injection	Pipette, syringe, dropping funnel
	Reaction observation	Throught the slit of the aluminum block
	Safety features	Double chamber, fuse, independent overheat protector
	Design	Materials of sample contacting part
End connection of cooling water		OD: 12mm (hose end), for silicone hose (ø9 x 13m)
Connector inlet/outlet of manifold		OD: 7.5mm One touch hose inlet (silicone hose ø5 x 8m)
Ambient temperature		5°C to 35°C
Overall dimensions (mm) & weight		245 (W) x 275 (D) x 200 (H) (Chamber), 800H (Poll), 8kg
Components	Input power	8.5A, 850VA • AC100V 50/60Hz
	Manifold	CCX-32M Catalog No.212970
	Reaction vessels	optional, reactor size:ø34 (12types)
	Test tubes	Optional
	Aluminium chamber (test tube adapt)	CCX-32A Catalogue No.212980
Double chamber	CCX-32W Catalogue No.212990	
Stirring & heating unit	CCX-CTRL2 Catalog No.213000	

Reaction vessels can be changed (ø12~34)



Manifold CCX-32M



Aluminum block CCX-32A



Double chamber CCX-32M



Stirring and heating unit

## Compact Stirrer CPS-1000



CPS-1000

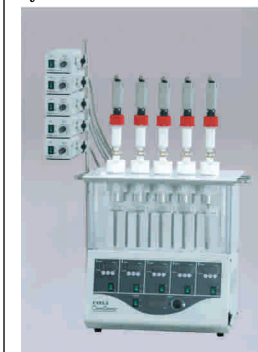
Most suitable for the routine experiment process.  
Easy-to use new design.

It is designed for personal organic synthetic Process Station (PPS, PPV series) and features compact size, overhanging stirrer. Because plural units can be used in parallel, it is convenient for the polymerization reaction, the stirring of crystal and reaction examination of a small volume sample. Compact size design contributes to space saving in the laboratory.

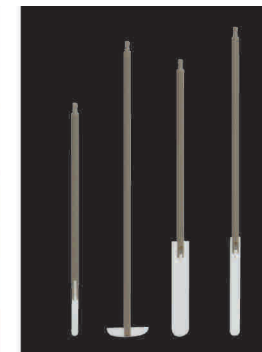
### Features

- Interchangeable joint (TS 15/25) can be mounted.
- Motor overload protection function is incorporated as an over-current protection circuit. When the circuit is over-current, motor automatically stops.
- Different shapes of impellers available depending on the synthesizers used with the stirrer.
- Rotation speed can be set to desired value. Slow-up function prevents overload caused by sudden rotation speed increase. Rotation speed change during operation and operation interruption by power switch are also possible.
- DC brushless motor is adopted to realize smooth and strong rotation. Rotation speed range is 31~226 rpm and Max. torque is 68mN/m.
- The stirring wing (impeller) is made of PTFE and the stirring rod (shaft) is made of PEEK. Both are inert specification and the experiment can be conducted without problem of the solvent chemical resistance.

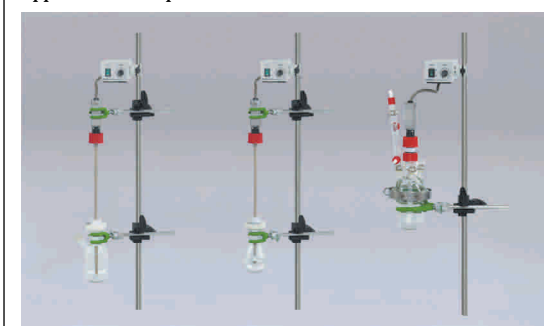
Combination with the organic synthesizer PPS



Stirrer shaft & Stirrer impeller



Application example



### Specifications

Product Name		Compact Stirrer
Model		CPS-1000
Cat.No		213290
Performance	Rotation speed range	31 to 266rpm
	Maximum shaft torque	68.mN • m
	Maximum stir viscosity	10000mPa • s
	Stirrer speed setting & display	Volume setting, digital display
	Material of solvent contacting part	PTFE (stirring impeller), PEEK (stirring shaft)
	Safety features	Motor over load protection (Auto-stop function)
Accessories		Motor joint, Wrench

Product name		Cat.No
Stir shaft	PPS-1510 · 2510 · 3510	218810
	PPS-5510	222730
	PPV-3000	218820
Stir impeller	PPS-1510	218830
	PPS-2510	218840
	PPS-3510	218850
	PPS-5510	218860
	PPV-3000	218870
Stir seal (TS15)		218800
Motor joint (With height adjustment screw)		222740
Stir seal TBO	TS24	121090
	TS29	121100
	TS34	121110
	TS40	121120