# Personal Organic Synthesizer Process Station PPS-1510 · 2510



Operation of the temperature controller

TEARS PUSSY	2 TEMP. PRIST	ACATING CO CO	4 TEMP. PYJSY  1 1 0  EATHS 6 6	5 TEMP. PUSSV
°°   °°   °°   °°   °°   °°   °°	I on orr	I on or	I Os orr	OT OT

Individual temperature range setting from -10°C to 150°C for each controller.

#### Standard system



Variable synthesis scale

Temperature controller and stirring unit are integrated and common to all

By changing such parts as Teflon cap and aluminum block, synthesis scale can be changed.

### **Standard Accessories**

Teflon caps	Septum sealing( x 5), Three-way cock( x 2), Piping set		
Aluminum block	Test tube( x 10), Stirrer( x 5)		
Double chamber	<del>-</del>		
Cooling cartridge	Cold insulation hose set (Silicone ø9 x 2m, 2pcs)		
Temp. & Stirring control	uni Fuse( x 1). Eathing adapter( x 1)		

Process Station is a 5-position organic synthesizer which is designed to improve the efficiency of process development of new reactions and catalysis, examination of reaction conditions and synthesis of intermediates.

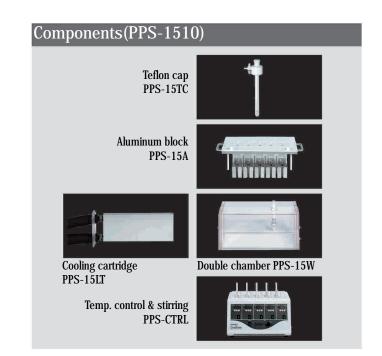
Individual setting of the temperature for each position enables examining by 5 types of temperature conditions simultaneously, allowing to achieve the most effective synthesis route.

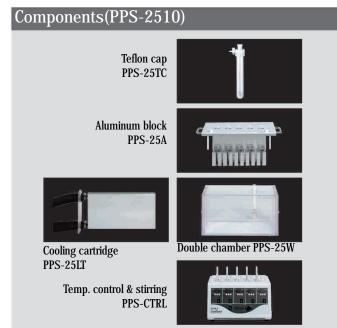
PPS-1510 and PPS-2510 are also equipped with reflux and gas exchange functions required for organic synthesis, in addition to temperature control and stirring. Synthesis scale can be changed by changing the aluminium blocks. There are such options available for post-processing, e.g. a set of operations for liquid-liquid extraction and concentration without exchanging containers.

- Available number of reaction vessels are max. 5 tubes.
- Five heating positions enable to set 5 different temperatures. (-10°C to
- Synthesis working volume is 1-4mL x 5(PPS-1510 or 10-30mL x 5 (PPS-
- Strong and stable vortex stirring can be executed by a powerful stirrer, making it possible to efficiently stir highly viscous liquids.

Specifications

5pt	CHICAUOHS					
Product name		Personal Organic Synthesizer (Process Station)				
Model		PPS-1510		PPS-2510		
Cat. No		198579	198578	198589	198588	
Available number of reaction vessel		1 to 5 pieces				
Synthesis scale		1mL to 4mL (Variable)		10mL to 30mL (Variable)		
Stirring system		Ferromagnetic stirrer				
		-10°C to 50°C (5*individual control)				
nan	Accuracy of temperature control	±0.5°C				
Performance	Range of stirring speed	Approximately 250 to 1600rpm at 4mL volume of water		Approximately 250 to 1300rpm at 30mL volume of water		
Functions	Temperature setting, display	Membrane key pad input. digital display				
	Setting of stirring speed	Volume input, digital display				
	Gas substitution	By reducing pressure and replacing air with inert condition				
	Reflux	The cooling water-cooled alumin		ium reflux head provides efficient and refluxing		
	Sample injection	Pipette, syringe, dropping funnel under inert condition				
	Reaction observation	Through the slit of the aluminium block				
	Safety features	Double chamber, Fuse, Dew tray, Individual overheat protectors (5), Thermo protector for empty heating				
70	Materials iof sample contacting parts	Borosilicate glass (DURAN), teflon, perfluoro				
jo	Connection of cooling water	OD 10.5mm hose end			4010	
Specifications	Size of reaction tubes (mm)	ø15*150 (with rim)			(with rim)	
ecif	Size of the magnetic stirring bars			ø20*7Hmm (cross bar)		
Sp	Ground joint	` '		5/25		
	Ambient temperature			0.35°C		
	Overall dimensions (mm)	465(W)*310(D)*415(H)		465(W)*310(D)*465(H)		
	Weight	21kg		23kg		
	D	AC115V	AC220V	AC115V	AC220V	
	rower source	OWAL SUILCO		OVA	•	
	Teflon caps	PPS-15TC Cat.No.195189		PPS-25TC Cat.No.195199		
	Aluminium block	PPS-15A Cat.No.193849		PPS-25A Cat.No.193859		
Components	Double chamber	PPS-15W Cat.No.212669		PPS-15W Cat.No.212669 PPS-25W Cat.No.210399		
npo	Cooling cartridge	PPS-15LT Cat.No.212679		PPS-25LT Cat.No.210389		
JoS ,	Town 0 Catheline control of	PPS-CTRL	PPS-CTRL	PPS-CTRL	PPS-CTRL	
	Temp & Stirring control unit	Cat.No.191769	Cat.No.191768	Cat.No.191769	Cat.No.191768	





## Variable synthesis scale. Improved work efficiency



The dew preventive cooling cartridge does not need complicated connections



of the cold water circulation hoses.

Powerful stirring and reaction Observation window

Teflon made drip water receiving tray.



Gas purging



The gas piping tube is made Teflon shutter for preventing



Cross shaped stirring bar



Independent overheat protector (-10 to 150°C)





**Duble chamber** 



The loading slot of a double chamber

accepts both right and left side insertion.

EYEL

<sup>\* 5</sup> different temperatures can be set for each heating block.

\* When conducting temperature control or reflux at room temperature or lower, the unit needs to be connected to low temperature circulator