

Five heating blocks broadens your range of experiment.

Chemi Station PPS-5510 is a parallel type synthesizer that is useful for the applied study of liquid phase. 5 different reactions can be implemented within the range from 0.5mL to 60mL. Various sizes and types of vessels are available depending on your purpose.

Strong reflux

Reflux with dimroth condenser

By connecting the cool water manifold to dimroth condenser, strong and effective reflux experiment can be implemented. It is ideal to remove molecule (for example, water) generated from polymerization experiment or Dean-Stark Trap.

Removable reflux adapter



Since the reflux adapter which touches cooled reflux block, cools down the top of reaction tubes, the reaction solvent vapor can be refluxed sufficiently.

Cooling cartridge



Improved cooling cartridge can be inserted to the unit from either side.

Adding sample



Branched reaction vessel and 3-way stopcock enable users to add sample in inactive condition or drip the sample through dripping funnel.

Strengthening gas purge function

By using sealed tube, Schrenck tube, pressure-resistant vessel and Dean-Stark Trap, the atmosphere of sealed tube, dehydration, deoxidization and high pressure can be created.

Synthesis scale can be changed.



By using the test tube adapter, you can change the size and number of reaction vessel. Synthesis reaction within the scale from 0.5mL to 60mL can be implemented. Up to 20 reaction tubes can be attached.

Teflon shatter



Teflon shatter is equipped to prevent dew condensation on the aluminum block.

Safety features



In case of solvent spill out from broken test tube, Teflon tray is able to receive the solvent to protect the unit. Dual chamber prevents the dew condensation of aluminum block, and protects the unit from the sample scattered from broken test tube.



Five over heat protectors enable to set the different temperature limit for each block within the range from 60°C to 200°C. You can set the appropriate temperature depending on the type of solvent or setting temperature of the unit.

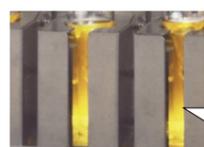
High performance individual temperature controller



You can set the temperature ranging from -10°C to 150°C for five heating blocks. Temperature can be controlled precisely ($\pm 0.5^\circ\text{C}$) around the room temperature, and it also falls smoothly.

※ Synthesis scale 50-60mL: Up to 130°C

Powerful stirring and reaction observation



Five ferromagnetic stirrers are supplied with five vessels. Strong and stable vortex stirring can be executed.

Through the observation window, the process of reaction in the test tube (color, reaction condition and stirring force) can be observed.

Various reaction vessels can be combined depending on your purpose.

Various types of reaction vessels can expand your possibilities of organic synthesis experiment. The following is our 10 recommended systems.

1. Polycondensation experiment can be implemented while removing water.
2. Reaction solvent vapor is condensed and refluxed absolutely.
3. Reaction temperature can be monitored.
4. By conducting freezing degassing, deoxidization can be implemented completely.
5. Anhydrous and anoxic reaction can be implemented.
6. Parallel screening and evaluation of reactions for 20 tubes.
7. Catalyst reaction can be implemented.
8. Handy Teflon two-way stopcock.
9. Concentration can be performed just after the synthesis.
10. Impeller stirring can be performed.

Various types of reaction tubes and reflux or non-reflux can be selected.

Manifold	<p>Manifold branches off the cool water inlet /outlet, or purge gas, or inactive gas into max. five directions. Manifold has two divergent pathways both on the top and the bottom, so it can be used for branching off the cool water inlet /outlet into five dimroth, and also for branching off vacuum line (10-25hPa) or inactive gas into five 3-way stopcocks.</p>		<p>Cool water manifold</p>	<p>Gas manifold</p>				
Various reaction tubes	<p>Branched reaction tube ($\phi 18 \cdot 24 \cdot 30 \cdot 34$)</p>	<p>Three-cock for adding sample (Schlenk test tube) + standard reaction tube ($\phi 18 \cdot 24$)</p>	<p>Sealing reaction tube ($\phi 16 \cdot 24$)</p>	<p>Teflon cap + $\phi 15$ test tube (with lip)</p>	<p>$\phi 12$ test tube</p>	<p>$\phi 30$ pressure-resistant vessel + pressure-resistant tube with valve</p>	<p>Dymroth condenser + Branched reaction tube ($\phi 18 \cdot 24 \cdot 30 \cdot 34$)</p>	<p>Dymroth condenser + Dean-stark trap + Branched reaction tube ($\phi 18 \cdot 24 \cdot 30 \cdot 34$)</p>
Drip-proof cover ($\phi 12 \cdot 35$)								
Reflux adapter ($\phi 12 \cdot 25$)								
Test tube adapter ($\phi 12 \cdot 34$)								
PPS-5510								