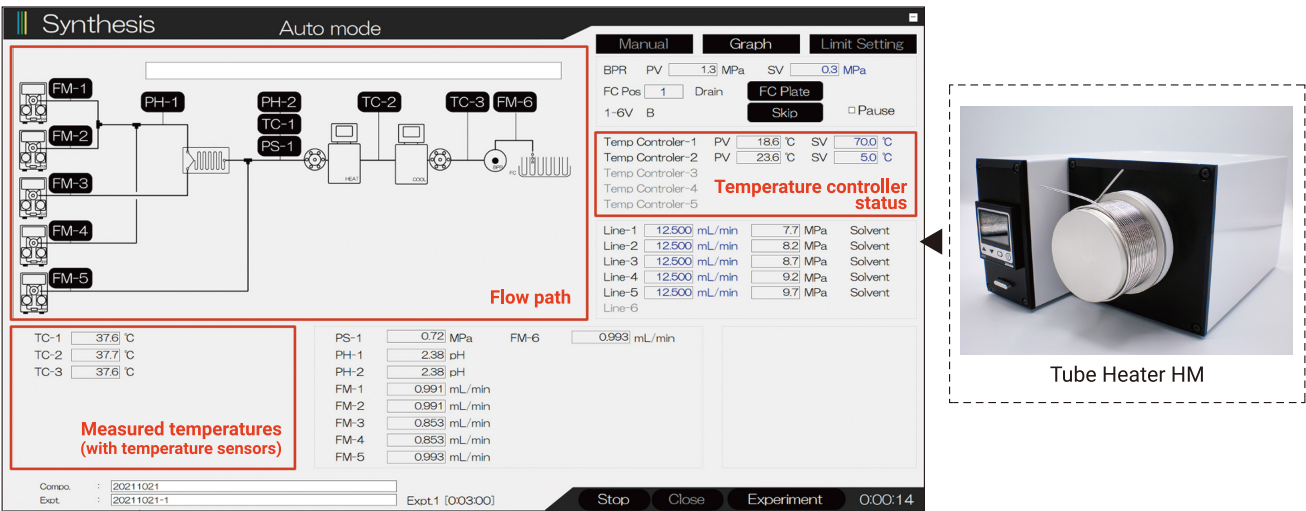


Other Connectable Devices

The control software includes temperature controller settings as its standard feature, with which tube heaters (optional) and other devices can be connected to the AltaFlow.



Notes: Also compatible with temperature controllers from other manufacturers. Please contact us if you are interested.

Configuration Example, Specifications

	4-Line	2-Line	3-Line (with gas-liquid and temperature regulation)
Plunger Pump (PP)	4	2	2
Reagent Switching Unit	4	-	2
Automated Back Pressure Valve (ABPR)	1	1	1
Fraction Collector (FC)	1	1	1
Mass Flow Controller	-	-	1
Tube Heater HM (optional)	-	-	1
FC Rack (10 ml × 50 bottles)	1	1	1
Control Software	4	2	3
Main Control Box	1	1	1
Device Dimensions (Width × Depth × Height)	870 × 550 × 600 mm	800 × 350 × 600 mm	870 × 600 × 600 mm

	Specifications	Remarks
PP Flow Velocity Range	0.01–99.999 ml/min	Calculated from reaction time
ABPR Range	0.1–5.0 MPa	
Fraction Collector (FC)	50 bottles (10 ml), 18 bottles (50 ml), and 10 bottles (110 ml) selectable	The price varies depending on rack specifications.

Automated Synthesizer for Process Research

AltaFlow



Automated Synthesizer for Process Research

AltaFlow

- AltaFlow was born from the technology of OptimFlow

Features of AltaFlow

1. Temperature controllers or measuring devices can be connected to meet users' needs.
2. Automatic switching between three or four reagent bottles per line.
3. Large-volume synthesis using dedicated software.



Device Overview and Synthesis Procedure

Device Overview



Automatic synthesis without complicated calculations



Intuitive synthesis software included

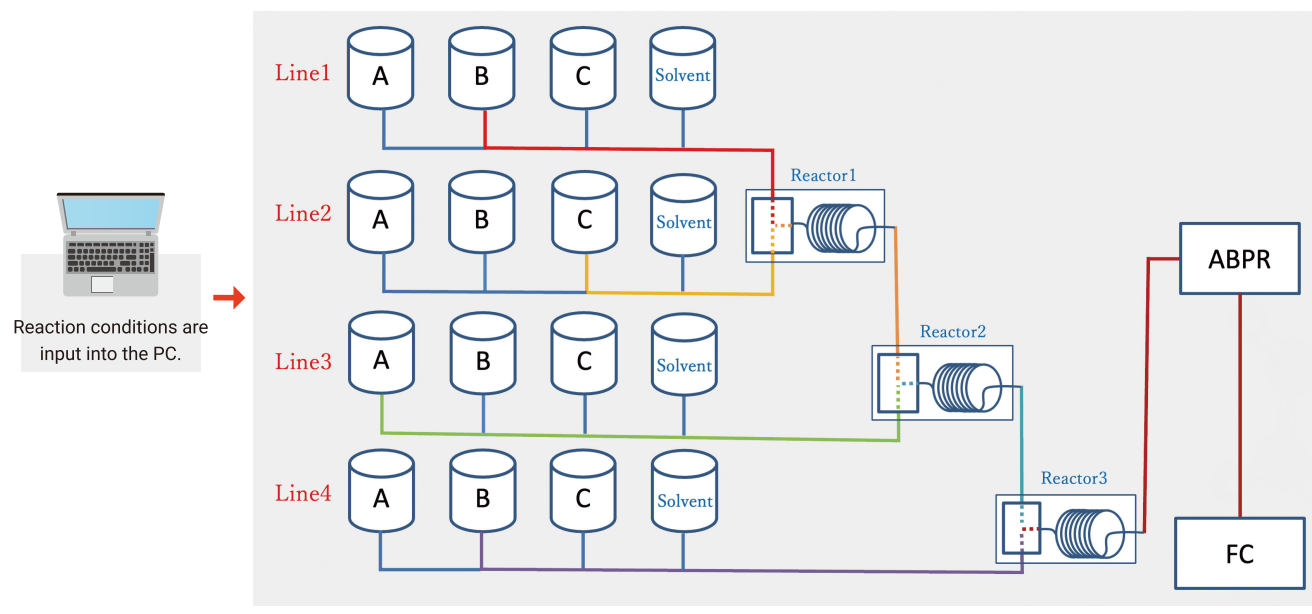


Synthesis with up to six lines and five reactors (5-stage reaction)

Once you load reagents and start the synthesis software, the AltaFlow performs all necessary processing, time adjustment, cleaning, and other procedures automatically for you.

Synthesis Procedure

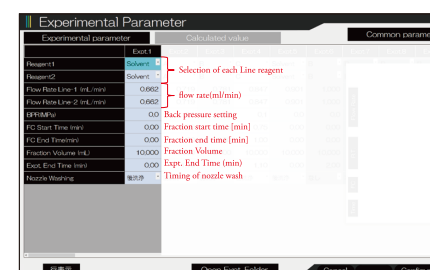
Select one reagent per line from three samples for synthesis in the reactor.
The solvents are replaceable with samples.



Distinctive Features of AltaFlow

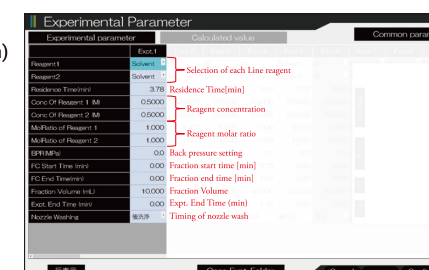
1. Two setting types, [Flow Rate] and [Residence Time], are available for the detailed setting of experimental values.

Select [Flow Rate] or [Residence Time] to set synthesis conditions to meet your needs.



[Flow Rate] For detailed flow-rate setting

[Setting items]
- Flow rate (ml/min)



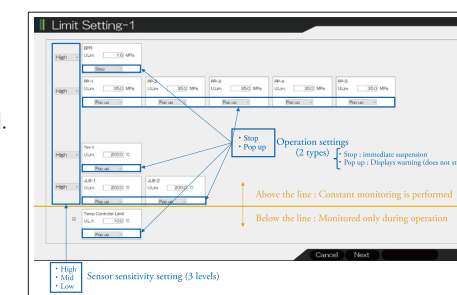
[Residence Time] For residence time and other related settings

[Setting items]
- Residence time
- Reagent concentration
- Mole ratio of reagents

2. Limit setting allows [Warning] or [Stop] to appear when an abnormality is detected.

Select [Warning] or [Stop] to appear on the screen when an abnormality is detected.

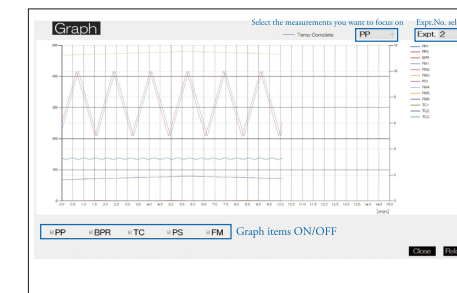
- [Warning] indicates that an abnormality is detected, but the reaction should not be stopped immediately.
- [Stop] indicates stopping the reaction immediately.
- The sensitivity has three levels: [High], [Mild], and [Low].



3. The software can record and display detailed graphs.

The software records various values (e.g., liquid temperature, back pressure, and flow velocity) during synthesis.

- Select devices for display
- Narrow down display groups
- Display measurement history as graphs after synthesis



FC Plate Display

On the automatic synthesis screen, the collect positions of synthesized materials are displayed in color.

A different color is assigned to each experiment, which clearly identifies the collect position after continuous synthesis.

