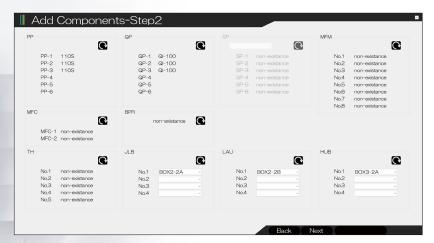
Compatible with External Device Integration

AltaFlow is designed to flexibly accommodate a variety of system configurations through integration with external devices.

With a proven track record of connecting to third-party devices, AltaFlow offers excellent expandability and system integration capabilities.



■ List of Device Integration Examples

Device Integration	Control	Pane
--------------------	---------	------

Pumps	DFC	FC-F/RP Series	Temperature	DFC	FC-TH Series Column Heater Uni
	TACMINA	Q Pump Series	Controllers	Julabo	CORIO CD Series DYNEO DD Series
	YMC	YSP Series		YMC	Coil Reactor Unit Column Reactor Unit
	Harvard	PDH ULTRA CP Series			Mixing Block Unit
	Fuji Techno Ind.	SMP Series		LAUDA	Circulating Constant Temperature Bath PRO Series,
	Bronkhorst	miniCORI-FLOW Gear Pump			etc.
Mass Flow	KOFLOC	EX-250 Series	Sensors		
ontrollers	Bronkhorst	F-201CV / F-211CV Series		DFC	DFC Inline Temp. Sensor, Pressure Sensor Bronkhorst miniCORI-FLOW Surpass Ind. NTF Series
Electrochemical Reactors	EC FRONTIER	ECSTATsyn-700Dx			

^{*}If you are considering integration with other external devices, please feel free to contact us.

■ Configuration Example / Price & Specifications

	4 Line	2 Line	3 Lines (with gas-liquid reaction and temperature control add-ons)
Plunger pump	4	2	2
Reagent switch	4	-	2
Back pressure	1		
Fraction collector	1		
Mass flow	-		1
Tube heater	·		1
Main box	1		
Sub box	-		1
Software	4	2	3
Size	W870 × D500 × H600 mm	W800 × D350 × H600 mm	W870 × D600 × H600 mm

	Specification		
Flow Rate Setting Range (PP)	0.01 – 99.999 ml/min		
Pressure Setting Range (ABPR)	0.1 - 5.0 MPa		
Fraction Collector (FC)	n Collector (FC) Selectable: 50 tubes (10 ml), 18 tubes (50 ml), or 10 tubes (110 ml)		

^{*}The above prices are for reference only and may vary depending on the system configuration and unit specifications.



DFC Co., Ltd. Device for Flow Chemistry

611-0033 Uji Venture Business Incubation Factory (Uji VFI) Building 2 1-25 Nishinohata, Okubo-cho, Uji-shi, Kyoto E-mail. info@dfc-kyoto.co.jp



Business Description

Development and sales of laboratory equipment

ields of Expertis

- Flow chemistry
- Liquid chromatography and HPLC
- Laboratory equipment for other applications





Altaflow

Automated Synthesis System for Process Development

P R O D U C T

0 V E R V I E W

Automated Synthesis System for Process Development

AltaFlow

AltaFlow was developed based on the expertise gained through OptimFlow.

> integration based on user requirements

upports manual synthesis and third-party device integration

FEATURES

Up to 4 reagent bottles selectable per line

System Overview and Synthesis Process

System Overview



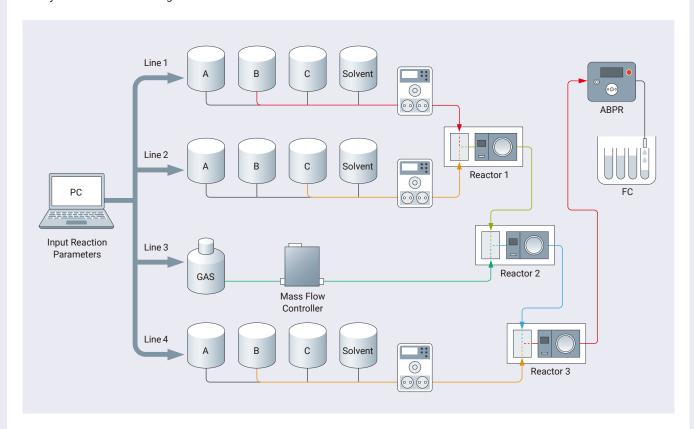
Equipped with user-friendly synthesis software



Enables synthesis with up to 6 lines and 5 reactors (5-step reactions)

Synthesis Process

Each line selects one sample (reagent) from 3 to 4 types and performs synthesis in the reactor. Any line can also be configured for mass flow control.





Users can specify detailed experimental parameters by selecting either [Flow Rate] or [Residence Time].

Synthesis conditions can be configured based on your needs using either [Flow Rate] or [Residence Time].



[Flow Rate]

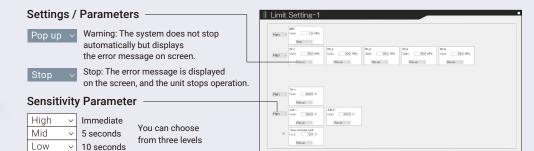
Synthesis is performed by setting the flow rate.

[Residence Time]

Synthesis is performed by calculating the flow rate based on the residence time, reagent concentration and molar ratio.

Limit settings allow the system to trigger a 2 [Warning] or [Stop] in response to detected abnormalities.

Upon detecting an abnormal condition, the system can be configured to either issue a [Warning] or initiate a [Stop].



Limit Setting Screen

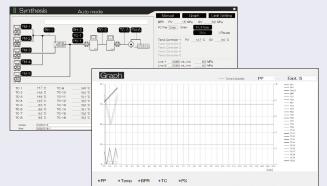
Enables manual synthesis and the logging / display of detailed graphs.

Supports manual synthesis

Manual control of each unit's ON/OFF status and parameter settings is available, allowing synthesis to be carried out.

Data Logging and Graph Display

The system logs synthesis data (e.g., flow rate, back pressure, liquid temperature) and visualizes it in real-time graphs. Selecting "Reload" allows you to refresh and view the latest graph data during operation.



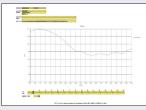
Support Functions of AltaFlow

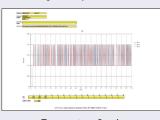
Automatic Report Generation

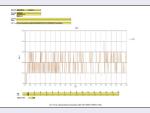
After synthesis is completed, the system automatically generates a report using the collected data and exports it as a PDF.

■ Generated Reports (The number of reports may vary depending on the system configuration)









Basic Information

Liquid and Gas Delivery Graphs

Temperature Graph

Back Pressure Graph