

Preparative HPLC systems

K-Prep FC is a preparative HPLC system that allows seamless scaleup from small scale production up to industrial scaling-up processes.

Features:

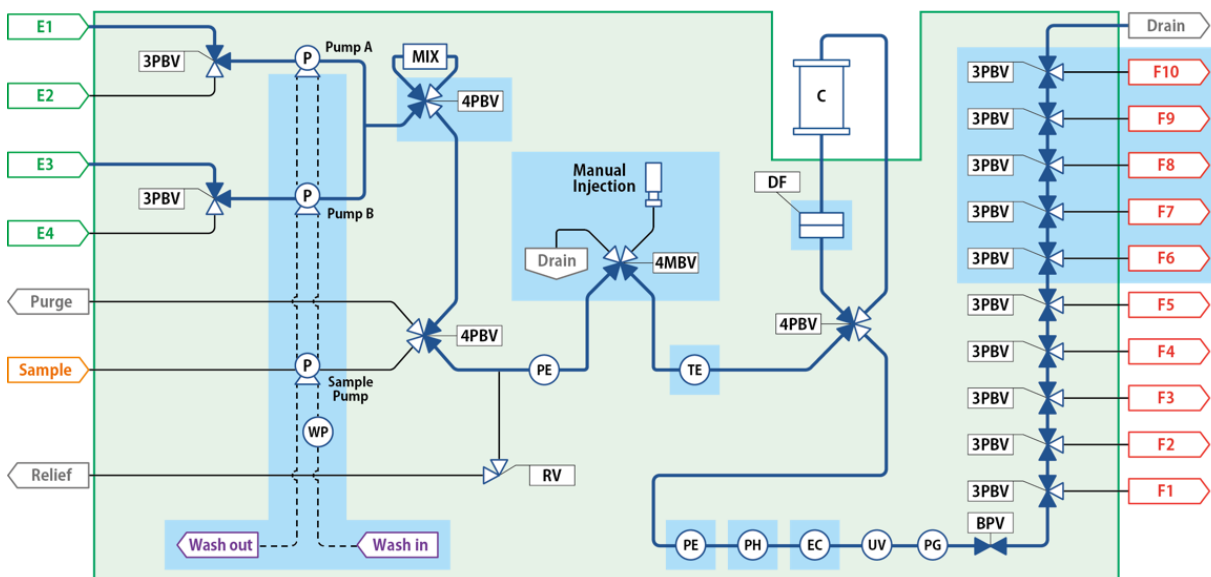
- Smooth transition from laboratory scale to industrial scale
- Usable for production purpose
- All-in-one system equipped with HPLC pumps to load samples and fraction collectors
- Strong support for preparative purifications provided by fully-automatic operation by PC
- Compliance with IQ/OQ validation and CSV



Channel Diagram

Mark	Name	Mark	Name
E	Inlet Port	TE	Temperature Sensor
F	Fraction Port	PH	pH Sensor
P	Pump	EC	Conductivity Sensor
C	Column	MIX	Mixer
3PBV	3way Pneumatic Ball Valve	RV	Relief Valve
4PBV	4way Pneumatic Ball Valve	BPV	Back Pressure Valve
4MBV	4way Manual Ball Valve	PG	Pressure Gauge
PE	Pressure Sensor	DF	Disk Filter
UV	UV Detector	WP	Plunger Washing Pump

*Gradient mode
optional



YMC CHIRAL ART Columns

Specifications

	FC750S	FC750G	FC1500S	FC1500G	FC3000S	FC3000G
Gradient capability	no	yes	no	yes	no	yes
Flow rate range	1 - 750 mL/min		1 - 1500 mL/min		1-3 Lpm	
Flow rate accuracy	±2% (75 mL/min and above)		±2% (150 mL/min and above)		±2% (300 mL/min and above)	
Maximum pressure	10 MPa					
Fraction port	1/4", SUS316, Swagelok fitting					
Inlet port	1/4", SUS316, Swagelok fitting		3/8", SUS316, Swagelok fitting		?	?
Solvent channel	2ch	4ch (2 × 2ch)	2ch	4ch (2 × 2ch)	2ch	4ch (2 × 2ch)
Fraction collector	5-channel switching valve method + drain					
Sample pump	1 - 300 mL/min					
Detector	UV (200 - 400 nm), 3 variable-wavelengths measurable					
Control and display	laptop PC (changeable FA PC) and programmable logic controller					
Utility	AC200V 50/60Hz					
	0.6 kW	1.1 kW	0.6 kW	1.1 kW	0.6 kW	1.1 kW
	0.5 MPa dry air					
Dimension	850 (W) × 970 (D) × 1300 (H) mm					

Before use (installation, operation, maintenance or check-up) of our products, instruction manuals should be carefully read and understood, and safety rules and precautions followed as outlined in the manuals.



The software, *K-Prep*, is developed in compliance with 21 CFR Part 11, cGMP, GAMP and Computer System Validation (CSV).

Electronic Records

The software is designed on the premise of a closed system and complies with 21 CFR Part 11 Subpart B(a)-(e)

Electronic Signatures

Each user ID and password combination is created, which complies with 21 CFR Part 11 Subpart C and with identification components of CSV guidelines.

System Validation

Lifecycle model of development and validation is constructed and verified at each stage of planning, designing, implementation, and testing. Documents are prepared in compliance with CSV guidelines.



8 Charlestown Street, Devens, MA 01434
United States
Tel: 978.487.1100
sales@ymc-america.com • www.ymc-america.com



YMC Co., Ltd Headquarters
Kyoto, Japan
Tel: +81.75.342.4515
sales@ymc.co.jp • www.ymc.co.jp/en