K-Prep FC

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:

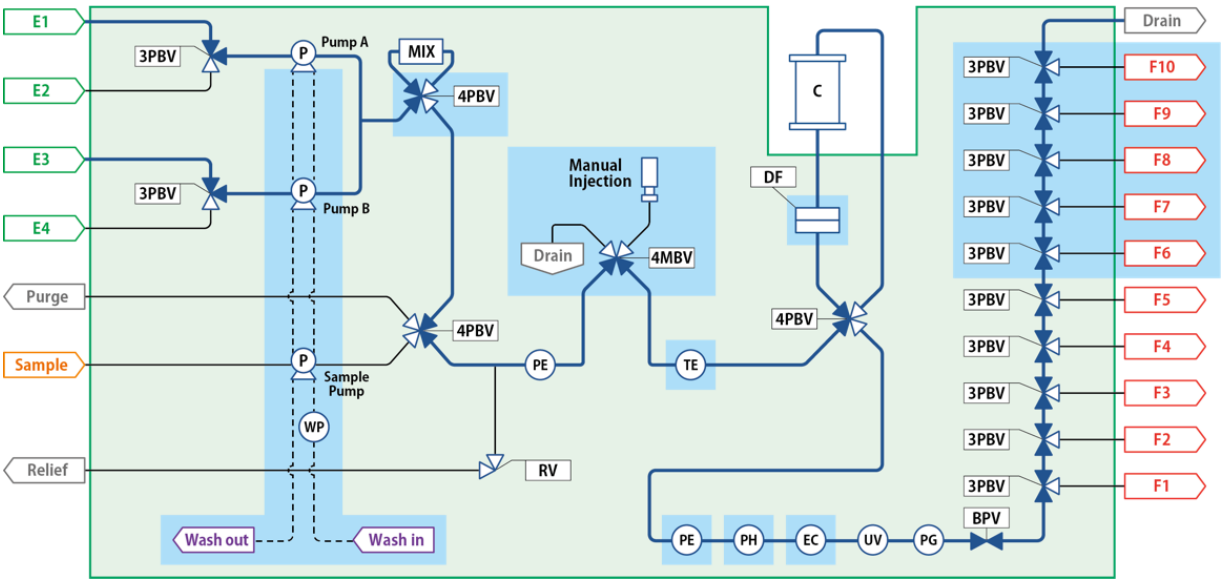
- Smooth transition from laboratory scale to industrial scale
- Usable for production purpose
- All-in-one system equipped with HPLC pumps to load samples and fraction collectors
- Strong support for preparative purifications provided by fully-automatic operation by PC
- Compliance with IQ/OQ validation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

Channel Diagram

Mark	Name
E	Inlet Port
F	Fraction Port
P	Pump
C	Column
3PBV	3way Pneumatic Ball Valve
4PBV	4way Pneumatic Ball Valve
4MBV	4way Manual Ball Valve
PE	Pressure Sensor
UV	UV Detector

Mark	Name
TE	Temperature Sensor
PH	pH Sensor
EC	Conductivity Sensor
MIX	Mixer
RV	Relief Valve
BPV	Back Pressure Valve
PG	Pressure Gauge
DF	Disk Filter
WP	Plunger Washing Pump

*Gradient mode
optional



K-Prep FC

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 (changeble 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.

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