



FLASH CHROMATOGRAPHY



Analytical Technologies UF(Ultra Fast) Series Flash Chromatography Systems

are a rapid form of preparative column chromatography, featured in rapid separation, is especially useful in separation and purification of large scale of complex organic intermixture, combinatorial chemistry, drug discovery and natural product research and development. System control: PLC, touch screen and controlled by Windows based software.

| Items | Specification |
|------------------------|---|
| Pumps | Valueless , High prcision,long time , maintenance free |
| | Static mixer: 5ml; 4.4 inch touch screen/keys |
| | Programmable gradients: 2 solvent isocratic, linear and /or step gradient. |
| Flow range | 5-100ml/min/ 150ml/min/ 250ml/min or custom made also possible |
| Flow accuracy | ±1% |
| Max.Pressure | 100psi (7bar) |
| Gradient | Step/linear gradient |
| Sample Volume | 4mg-40g minimum and maximum : Custom design possible |
| Sample Loading Methods | Solid or liquid |
| Sample loading by : | 4-way valve |
| | Fixed wavelength detector (265nm/280nm/310nm/360nm) |
| On line detector | Variable wavelenght detector(200-450nm) Wavelenght accuracy: ±2nm Absorption range: 0-2AU |
| | CCD array detector Optional : 200-400nm 2 Variable wavelength Watching Wave length accuracy: ±2nm Absorption range: 0-3AU |
| Fraction collector | 1 tube stand , 13,15,16,18,24mm tube and beaker |
| | Rack 1 φ13 tube 10×10 |
| | Rack 2 φ15 tube 10×10 |
| | Rack 3 φ16 tube 10×10 |
| | Rack 4 φ18 tube 7×7 |
| | Rack 5 φ24 tube 6×6 |
| Power supply | 220VAC/110VAC |
| Working temperature | 15-40°C |

FEATURES:

1.High output

Expandable cartridge selection, easy to purify milligrams of final compound or tens of grams of intermediate; Fraction collector carry capacity: 504 tubes of 13×100mm (9ml).

2. Rapid purification

Total purification in less than 30 min

3. High quality Flash column

Standard luer connector, compatible with most Flash columns. Any make of the Cartridges , Columns and media (Packing material) can be installed into our system. Few of our designs and sizes are shown below :



Packing
Material

| Serial No. | Name | particle size | Remarks |
|------------|---------------------|---------------|-------------------------------|
| 1 | ODS-SP | 40-60um | For strong polarity compounds |
| 2 | ODS-E | 40-60um | For low & mid basic compounds |
| 3 | ODS-AQ | 40-60um | For hydrophilicity compounds |
| 4 | C18 MB100-40/75um | 40-75um | For normal compouds |
| 5 | C18 SMB 100-20/45um | 20-45um | For normal compouds |

Columns

Customized sizes and designs are possible

| Serial No. | Name | |
|------------|-----------------------|--|
| 1 | DN25*250 glass column | |
| 2 | DN25*400 glass column | |
| 3 | DN40*250 glass column | |
| 4 | DN40*400 glass column | |
| 5 | DN50*500 glass column | |

| Serial No. | PP columns | Qty. per package |
|------------|-------------|------------------|
| 1 | S-1101-004 | 20 |
| 2 | S-1101-012 | 18 |
| 3 | S-1101-025 | 12 |
| 4 | S-1101-040 | 12 |
| 5 | S-1101-080 | 10 |
| 6 | S-1101-120 | 10 |
| 7 | S-1101-220 | 6 |
| 8 | S-1101-330 | 5 |
| 9 | S-1101-800 | 3 |
| 10 | S-1101-1600 | 2 |

4. Online detection

Variable wavelength (200-360nm), Special flow cell design, short optical length, high sensitivity, low drift and noise

5. Automatic collection

Fraction modes: Peak, Volume, Windows; Customize racks supported

6. User friendly Interface

- Convenient Method modification: Any method modification could down via Touch Screen or software
- Solvent volume real time Display and solvent lack alarming
- Data acquiring and processing via Dr Flash TM software
- Peak Trace: Easy to find peak fraction from the chromatogram



7. Precise and reliable solvent delivery pump, Binary pump gradient

- Patented valveless metering pump, 4 stroke phases design, long life, maintenance free, low pulse
- Chemical resistant and good resistance to acid and alkali

8. Dr Flash™ software

Media for Packing :

Packing Material - Weight -Cat. No.

Silica (CS)* 12 CS120012-0

Silica (CS)** 20 CS120020-0

Silica (CS) 40 CS120040-0

Silica (CS) 120 CS120120-0

Silica (CM) 12 CM140012-0

Silica (CM) 20 CM140020-0

Silica (CM) 40 CM140040-0

Silica (CM) 120 CM140120-0

SilicaNH2 12 NH140012-0

Silica NH2 20 NH140020-0

Silica NH2 40 NH140040-0

Silica NH2 120 NH140120-0

Silica ODS 12 OD140012-0

Silica ODS 20 OD140020-0

Silica ODS 40 OD140040-0

Silica ODS 120 OD140120-0

Optional Accessories Racks and Accessories :

Type The quantities for Vessels Vessels and max. Capacity

Code MP rack For 2 Mirco-plates tube 96/384/1536-well micro plates

Code 10 rack For 120 tubes 10 x 65mm(3mL); 10 x 75mm(3.5mL); 10 x 100mm(4mL)

Code 12 rack For 85 tubes 12 x 32mm(2mL);12 x 75mm(5mL);

Code 13 rack For 85 tubes 13 x 100mm(9mL)

Code15 rack For 56 tubes 15 x 45mm(4mL)

Code 16 rack For 56 tubes 16 x 75mm(10mL);16 x100mm(12mL)

Code 18 rack For 56 tubes 18 x 100mm(25mL);18 x 150mm(32mL)

Code 20 rack For 36 tubes 20 x 180mm(45mL)

Code 25 rack For 30 tubes 25 x 150mm(45mL);25 x 200mm(60mL)

Various Accessories used in the Flash Chromatography Systems



►►► Our Other Products and Technologies



**Intelligent HPLC /
UFLC / UPLC / NanoLC™**



UV Spectro 2060 plus



Ion Chromatograph



Raman Spectro



Gas Chromatograph



FTIR



Flash Chromatography



Water Purification System



Polarimeter



High Speed XRD / XRF



**Optical Emission
Spectrometer**



**Services, Spares & Consumables
for any make of systems**



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