

# FLASH CHROMATOGRAPHY

## FC 3065



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

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, system can be upgradable to optional UV,ELSD & Mass detector.

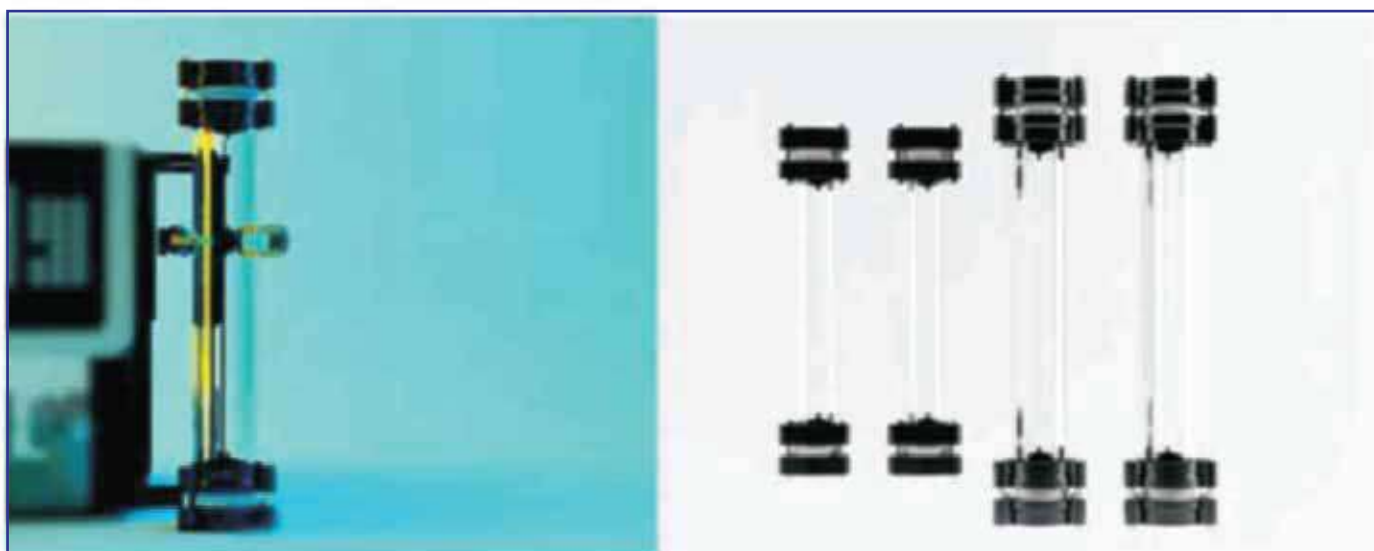
### ►► Specifications :

Items	Specification
Pumps	Valveless, High precision, long life time and maintenance free Static mixer: 5ml;4.4 inch touch screen/keys Programmable gradients: 2 solvent isocratic, linear and / or step gradient
Flow range	0.001-100ml/min (custom made)
Flow Precision	±0.1% RSD.1.000 ml/min
Typical Pressure	<0.1 MPa or <1.0%
Flow accuracy	±0.1%
Max.Pressure	150psi (10.3421 bar)
Gradient	Step/linear gradient
Gradient Accuracy	±1% step gradient), ±3%(linear gradient)
Sample Volume	4mg-40 minimum and maximum: Custom design possible
Sample Loading Methods	Solid or liquid
Sample Loading by	4-way valve
Function:	Real time & post run spectral display with peak purity by spectral ratio
Safety features	Over pressure sensor, grounded solvent path, audible alarm & option of vapor enclosure for collection racks.
On line detector Options	<p><b>1. PDA Detector:</b>            Diode Array: 1024 diodes            Wavelength: 190 - 800 nm            Light Source: Deuterium lamp &amp; Tungsten lamp            Spectral Resolution : 0.6 nm/pixel            Spectral Width : 4.8 nm            Wavelength Accuracy: - + 1 nm            Wavelength Precision: - + 0.1 nm            Noise: - + 0.6x10<sup>-5</sup> AU (ASTM)            Drift: 1x10<sup>-3</sup> AU/Hr AU/Hr            Linear Range: &gt;2 DAU (ASTM)            Max. Sampling Rate: 12 channels, 100 Hz Full spectrum, 100Hz            Flowcell Pressure: 1200 PSI            Flowcell Light Path:10mm</p> <p><b>2. CCD Array Detector:</b>            Wavelength range 200-800nm            Materials : SS/PEEK (opt)            Variable wavelength watching            Wave length accuracy: ±1nm            Absorption range: 0-3AU</p>

	Linearity: $\geq 2.0AU$ Light Source: D2 Lamp, Tungsten Lamp Wavelength Program: Programmable, 10 steps Analog Output: 1x1 V (Optional: 2x2zV) Control Features : Internal Peak Detector with +24 V solenoid switching output. Power supply: 100-250~V (47-63Hz)
Fraction collector	Collected test tube Test tube with different size rack Max capacity 15*150 mm (18ml/branch) Range of timed collection: 1 sec. to 9999 min. Range of the setting peak Collection : 1-200mv Range of counting drops: 1 drops to 9999 drops Function of power down data storage: data will be kept for 10 years. Procedures available: 1-10 modes
Power supply	220VA/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 :

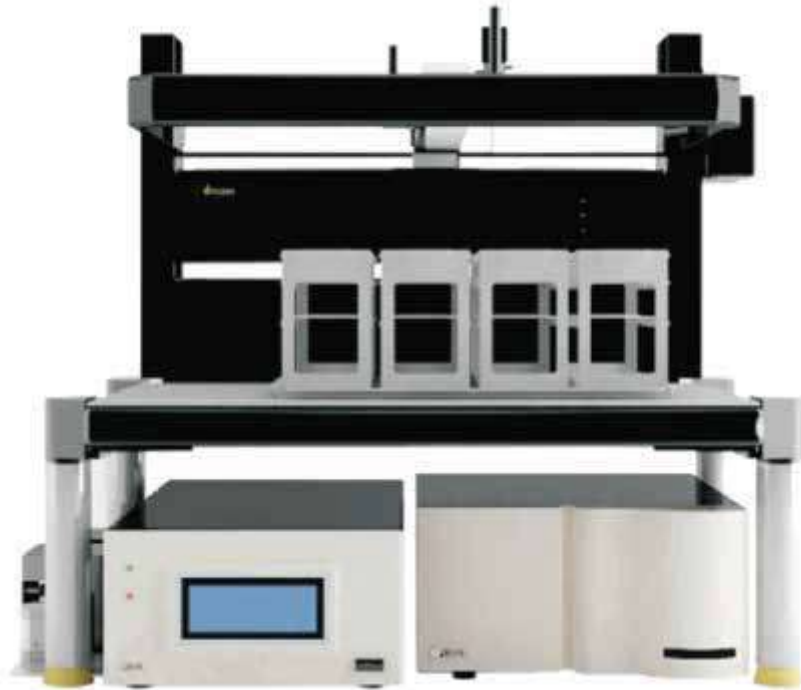


Serial No	Name	Particle	Remarks
1	ODS-SP	40-60um	For strong polarity compounds
2	ODS-E	40-60um	For low& mid basic compounds
3	ODS-AQ	40-60um	For hydrophicity compounds
4	C18 MB 100-40/75um	40-75um	For normal compounds
5	C18 MB 100-20/45um	40-45um	For normal compounds

Columns	Customized sizes and design 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
1	S-1101-004
2	S-1101-012
3	S-1101-025
4	S-1101-040
5	S-1101-080
6	S-1101-120
7	S-1101-220
8	S-1101-330
9	S-1101-800
10	S-1101-1600

- Online detection Variable wavelength (200-360nm), Special flow cell design, short optical length, high sensitivity, low drift and noise
- Automatic collection Fraction modes: Peak, Volume, Windows; Customize racks supported
- 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



- 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
- Dr Flash TM software

#### ►► **Accessories :**

##### **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





## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

## Our Products & Technologies



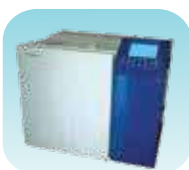
UV/VIS  
Spectro 2080+  
Double Beam



Infra FTIR



Optima Gas  
Chromatograph  
3007



Optima Gas  
Chromatograph  
2979 Plus



Flash  
Chromatograph



Atomic Absorption  
Spectrophotometer



Liquid Particle  
Counter



Optical Emission  
Spectrophotometer



DSC/TGA



Semi Auto Bio  
Chemistry Analyzer



HEMA 2062  
Hematology  
Analyzer



Micro Plate  
Reader/Washer



URINOVA 2800  
Urine Analyzer



Total Organic  
Carbon 3800



Fully Automated  
CLIA



NOVA-2100  
Chemistry Analyzer



PCR/Gradient PCR/  
RTPCR



TOC  
Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



# Analytical Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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